## Checklist for the implementation of measures listed in Appendices 1 and 2 to the EMP for Contract 1B.5/3

#### **Appendix 1 to the Final Report**

This document, attached as Appendix 1 to the Final Report on the implementation of measures specified in the Environmental Management Plan for Contract 1B.5/3 (reporting period: July 2021 – November 2023), consists of the following sections:

- Part I. Checklist for the Contractor's implementation of mitigation measures listed in Appendix 1 to the Environmental Management Plan (EMP),
- Part II. Checklist for the Contractor's and Engineer's implementation of monitoring measures listed in Appendix 2 to the EMP,
- Part III. Quantitative summary of the implementation of the measures listed in Appendices 1 and 2 to the EMP.

Measures listed in Appendices 1 and 2 to the EMP are grouped into 20 thematic categories:

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# Part I. Checklist for the implementation of mitigation measures listed in Appendix 1 to the EMP for Contract 1B.5/3.

Item	Mitigation measure listed in Appendix 1 to the EMP	Implementation status in the reporting period
1.	EMP conditions regarding the deadlines for carrying out the works When determining the schedules of works and at the stage of Task implementation, the Contractor shall take into account the EMP conditions regarding the dates and time of carrying out the different types of works, including:  a) permissible hours of works (see item 57) b) permissible dates for felling trees and shrubs (see items 26 - 27) c) permissible dates for the removal of fertile soil (humus) layer (see item 21)	Measure implemented and completed  Measure implementation started in September 2021, according to the approved schedule and its subsequent updates. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
2.	EMP conditions regarding measures to be implemented prior to the commencement or at the initial stage of works.  When determining the schedules of works and at the Task implementation stage, the Contractor shall take into account the EMP conditions regarding the measures to be implemented prior to the commencement or at the initial stage of the works, including:  a) conditions for the construction of and equipment for site facilities and temporary roads and yards (see items 14-16, 43, 61, 63, 68);  b) conditions for transportation at the construction site (see items 3-13);  c) condition for the fencing of the construction site (see items 20-25);  e) condition for the removal and securing of the humus layer (see items 20-25);  e) condition for tree and shrub removal and tree protection (see items 26 - 33);  f) condition for the implementation of the wildlife inventory (see item 34);  g) conditions concerning the securing of habitats and sites of protected species and the protection of small animals (see items 39 - 42)  h) conditions for the preparation of documents (see items 4, 64, 70-72, 79, 82, 83, 93, 102);  i) conditions for obtaining the Engineer's approval of the EMP coordinator and the members of the environmental supervision team, the archaeologists team, and the sapper's supervision team (see items 89, 90, 92, 93);  j) conditions requiring training on the principles of implementation of the EMP (see item 88);  k) conditions for sapper reconnaissance and archaeological surveys prior to the commencement of works (see items 74, 86).	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in September 2021, according to the approved schedule and its subsequent updates. Measure completed in August 2022 with the Contractor taking into account all conditions of the EMP for measures to be carried out prior to or during the initial stage of the works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
3.	Conditions for the use of access roads to the Task site  The use of access roads running to the Task site is subject to the following requirements:  a) Access to the Task site should be designated on the basis of existing roads.	Measure implemented and completed

		Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
4.	b) The Contractor shall prepare traffic arrangement and site security plan for the duration of works according to the Technical Specifications and requirements of road managers concerning transport and use of such roads.	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
5.	c) The Contractor shall agree the traffic arrangement and site security plan with the Road Administration Authorities. The Contractor shall arrange the traffic according to the agreed plan (which includes the signage and protection of the works, the signage of any divergence and the recommended road signage due to any modification of traffic arrangement, etc.),	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
6.	d) Prior to the commencement of the works, the Contractor shall submit to the Engineer for approval the traffic arrangement and site security plan agreed with the road administration authorities and the traffic management body. The traffic arrangement and site security plan should be updated by the Contractor depending on the needs and progress of the works.	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	be updated by the contractor depending on the needs and progress of the works.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
7.	e) The Contractor shall ensure the proper signage for all access roads to the Task area, in accordance with the applicable law and arrangements with the relevant Road Administration Authorities. The Contractor shall check the signage on a regular basis and restore or replace it immediately in the event of destruction or theft.	Measure implementation started late relative to the construction start date - in February 2022. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	infinediately in the event of destruction of their.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
8.	f) The Contractor shall maintain the paved areas in the area of the Task implementation, within which the vehicles will travel, in good condition. Where necessary, the Contractor will carry out the necessary repair and reinforcement works for the existing roads in order to maintain traffic flow and the correct standard.	Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	now and the correct standard.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.

	g) The Contractor shall be liable for any damage to structures, buildings, roads, drainage	Measure implemented and completed
9.	ditches, culverts, water or gas supply lines, power lines and poles, cables, survey control points, any type of installation, and other types of facilities such as signage and marking, navigation signs, information boards, cultural heritage sites, etc., caused by the Contractor or their Subcontractors during the Task period.  The Contractor shall repair any damage at their own expense and, where necessary, carry out other works ordered by the Engineer.	Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
	works of defed by the Engineer.	Measure implemented and completed
	h) The Contractor shall observe any statutory restrictions regarding axle load when transporting materials and equipment to and from the Task site.	Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		No problems with the implementation of the measure or irregularities were identified.
		Measure not implemented
	i) The Contractor shall obtain from authorities all permits required to transport any atypical load and shall notify the Engineer every time in the event of such transport.	Measure implementation was not required during the works.
		During the period of the Contract, there was no need to obtain the necessary permits from the authorities as to the transport of atypical loads.
		Measure implemented and completed
12.	j) The Contractor shall prepare photographic documentation of the whole Task site and access roads, with a particular focus on the condition of roads and buildings located near the roads used for transportation of construction materials.	Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
13.	k) Prior to the commencement of the works, the Contractor shall carry out on-site inspections in the presence of the Road Administration Authorities, as a result of which the reports on the condition of access roads to the Task execution area will be prepared. On this basis, the Contractor will be obliged to restore the technical condition of roads from before the Task	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	implementation period.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
	Obligation to provide site facilities, roads, material storage areas, and parking spaces	Measure implemented and completed
14.	Prior to the commencement of the works, the Contractor shall provide the construction site facilities as well as roads and places for the storage of materials and parking spaces.  The equipment for site facilities and the use of the site should meet, inter alia, the conditions given in items 61, 63, 68.	Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	When planning the above-mentioned elements of the construction site, it is necessary to ensure that their area is limited to a necessary minimum.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
15.	Conditions for choosing the location of site facilities, material storage areas, and parking spaces  a) Construction site facilities (including material storage areas, vehicle parking areas) will	Measure implemented and completed

	be located in areas transformed by man; they will not be designated within patches of identified riparian forest habitats 91E0* (willow, poplar, alder, and ash riparian forests) in the vicinity of the railway line, oxbow lakes 3150 (Oxbow lakes and natural eutrophic water reservoirs with communities of <i>Nympheion</i> , <i>Potamion</i> ) and within 50 m of water bodies and river banks.	Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
16.	b) The materials for adding height to the embankment and the track surface elements will be stored within the rented loading ramps/storage yards at Kostrzyn station and will be delivered directly to the construction site according to the current demand of the works front.	Measure implementation started in September 2022. Measure completed in August 2023, following the completion of track works.
		No problems with the implementation of the measure or irregularities were identified.
	Management of soil from the construction site Soil located on the construction site should be used primarily on the construction site. The remaining excess soil should be managed in accordance with applicable regulations and design documentation.  Earth masses which are shown to exceed the permissible concentrations of substances (in	Measure implemented and completed  Measure implementation started in March 2022. Measure completed in October
17.	accordance with current waste management and environmental protection legislation) must be	2023, following the completion of construction works.
	treated as waste and handed over to entities with the appropriate authorisation for further management.  The method of waste soil management should be presented in the Waste Management Plan prepared by the Contractor and submitted for the Engineer's approval prior to the works (item 64).	No problems with the implementation of the measure or irregularities were identified.
18.	Quality control of excavated earth masses  If ongoing assessment and verification of the quality of excavated earth masses (see monitoring measure in item 109 in Appendix 2 to the EMP) reveals any changes in parameters and appearance of soil (such as its colour, odour, or consistency):  - The Contractor shall conduct control tests and determine the quality of the earth masses, in accordance with applicable regulations (in accordance with the Waste Management Act of 14 December 2012 and relevant implementing acts). The tests will be conducted by a laboratory accredited to perform this type of testing.  The aim of the tests is to:  determine the possibility of using earth masses within the construction site (if the absence of contamination by hazardous substances is confirmed);  determine the acceptable methods of handling contaminated earth masses.	Measure not implemented  Measure implementation was not required during the works.  No change in soil parameters or appearance (such as its colour, odour, consistency) was detected during the Contract period as a result of the monitoring.
19.	Requirements for off-site soils and aggregates Soils (including earth masses) and aggregates used for construction works and sourced from outside the site shall comply with soil quality standards and land quality standards (in accordance with the Environmental Protection Law and its implementing acts), as well as any other applicable regulations and standards (including the conditions in item 49 of Appendix 1 to the EMP).	Measure implemented and completed  Measure implementation started in June 2022. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
20.	Collection, storage, and use of the humus layer  a) Prior to the commencement of works in individual parts of the Task area where works, temporary roads and yards, etc. are planned, a layer of fertile soil (so-called humus) with a thickness of no less than approx. 0.2 m shall be collected and stored in heaps at a place and in a manner approved by the Engineer;	Measure implemented and completed  Measure implementation started in September 2022. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.

		Measure not implemented
	b) Humus removal works should be carried out from the beginning of September to the end	Measure implementation was not required during the works.
21.	of February. If it is necessary to carry out these works at a different date, the Engineer's consent should be obtained.	The removed topsoil found on the site showed a lack of adequate organic matter (too low fertility) in laboratory tests. It was also characterised by a high amount of solid contaminants. It could not be used for landscaping as humus. It was managed in accordance with the Waste Management Plan and the applicable Waste Management Act.
		Measure not implemented
		Measure implementation was not required during the works.
22.	c) The stored humus piles should be systematically sprayed, with frequency depending on the weather conditions (do not allow the piles to dry for more than 5 days).	During the term of the Contract, during the period of storage of the soil removed from the surface of the Task area, which was tested for organic matter content (it was treated as potential humus), there was no drying of the heaps due to favourable weather conditions (autumn and winter period).
		Measure implemented and completed
23.	d) The stored humus heaps is to be protected from contamination, spreading, compaction, stockpiling of construction materials and growth of weeds and invasive plants, etc.	Measure implementation started in September 2022. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
	On accordation of the accordance is a second bounce in to be used for landacouring	Measure implemented and completed
24.	e) On completion of the construction work, the stored humus is to be used for landscaping (also condition in item 44).  Measures related to the restoration of the humus layer and the restoration of green areas should be started as soon as possible.	Measure implementation started in March 2023. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	Started as soon as possible.	No problems with the implementation of the measure or irregularities were identified.
		Measure implemented and completed
25.	f) The landscaping work shall be carried out under the supervision of an expert botanist/phytosociologist from the Contractor's environmental supervision team referred to in item 90.	Measure implementation started in March 2023. Measure completed in November 2023, following the completion of reclamation and clean-up works.
		No problems with the implementation of the measure or irregularities were identified.
		Measure implemented and completed
26.	Permissible dates for tree and shrub removal In order to protect birds, the planned tree and shrub removal should be carried out outside the bird breeding season, i.e., between 15 October and 1 March.	The best part of the measure was implemented in November-December 2021. In July-August 2022, follow-up felling was carried out, preceded by an inspection and under the supervision of environmental supervision experts.  Measure completed in August 2023, following the completion of felling.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.

	T	Measure implemented and completed
27.	The condition of carrying out tree and shrub removal outside the permitted period If it is necessary to remove trees and shrubs during the bird breeding season, immediately before cutting, environmental supervision, indicated in item 90, should be carried out by an ornithologist to check for the presence of bird habitats; if such habitats are found, relevant permits for those habitats should be obtained for derogations from the bans applicable to individual protected species of fauna (under the rules specified in accordance with applicable regulations) – see also items 36-39.	Measure implemented and completed  Follow-up felling was carried out in July-August 2022, preceded by an inspection and under the supervision of an expert ornithologist from the environmental supervision team.  Measure completed in August 2023, following the completion of felling.  No problems with the implementation of the measure or irregularities were identified.
28.	Minimising the extent of tree and shrub removal  The Contractor shall minimise the extent of tree and shrub felling to the minimum necessary while complying with the requirements of railway safety regulations.  The extent of felling is subject to the approval of the Engineer.	Measure implemented and completed  The best part of the measure was implemented in the period November 2021 - January 2022. Follow-up felling was carried out in July-August 2022. Measure completed in August 2023, following the completion of felling.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
29.	Inspection of trees for the presence of protected animal species  In the case of felling trees with diameter at breast height (i.e. measured at a height of 130 cm, per the Nature Conservation Act) of more than 100 cm, immediately prior to felling (a maximum of 7 days prior to the planned felling), an inspection of these trees for the presence of protected bat and/or invertebrate species shall be carried out with the participation of an expert entomologist and chiropterologist from the Contractor's environmental supervision team. Tree and shrub felling must be carried out under the supervision of the aforementioned specialists.  If specimens of protected insect and bat species are found in trees to be felled, the aforementioned experts will determine how to deal with the wood populated by protected animal species and how to reduce their mortality.	Measure implemented and completed  Measure implemented prior to tree felling (October and December 2021 and July-August 2022).  Measure completed in August 2023, following the completion of felling.  No problems with the implementation of the measure or irregularities were identified.
30.	Conditions justifying the felling of trees populated by valuable beetle species If protected beetle species (larval or adult forms) are found within the trees to be felled, the felling of a populated tree can only be authorised on technical or technological grounds. Before felling a tree inhabited by protected beetle species, the Contractor shall obtain the necessary administrative decision, issued on the basis of the Nature Conservation Act, authorising derogations from the bans applicable to protected species – see also items 36 - 39. The Contractor will then carry out the felling and any other measures imposed by an administrative decision issued under the Nature Conservation Act.	Measure not implemented  Measure implementation was not required during the works.  During the period of the Contract, entomological monitoring did not identify any trees populated by valuable beetle species
31.	Principles for dealing with the felling of trees populated by bat species  If bats are found in trees to be felled, the felling must be temporarily halted and the recommendations of the chiropterologist expert of the Contractor's environmental expert team must be implemented, appropriate to the current atmospheric situation and the bat species found.	Measure not implemented  Measure implementation was not required during the works.  During the period of the Contract, the chiropterological monitoring did not identify any trees populated by bat species
32.	Conducting works within the scope of trees not intended for removal  Any trees and shrubs to be preserved growing in the area of the works and exposed to damage due to the work and movement of the equipment must be protected against mechanical damage by:  a) shielding trunks of trees growing in the immediate vicinity of earthworks, e.g. by installing trunk shields made of wooden boards, at least 1.5 m high, around the whole trunk, b) where possible, conducting any earthworks carried out within the root system manually,	Measure implemented and completed  Measure implementation started in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.

	c) exposed tree and shrub roots should be protected with mats made of straw or sackcloth, or with peat, in order to protect them against excessive drying (summer) or freezing (winter), d) construction materials and soil from excavations must not be stored under tree branches, as this prevents gas exchange between air and soil, which may lead to the dying and rotting of roots, e) preventive crown pruning to prevent damage to trees in the area of machinery and equipment garaging (if necessary under the supervision of a dendrologist from the Contractor's environmental supervision team referred to in item 90).	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
33.	Protection of damaged trees and shrubs.  In the event of damage to the above-ground parts of trees and shrubs not intended for removal, the necessary care measures appropriate to the place and type of damage must be carried out immediately.  In the case of root damage, the damaged ends should be cut off, and the roots should be protected with fungicide.  The above-mentioned measures should be carried out in agreement with the dendrologist from the Contractor's environmental supervision team (referred to in item 90), and after their execution, the opinion of the above-mentioned team regarding the assessment of the correctness of the implemented measures should be submitted to the Engineer for approval.	Measure implemented and completed  Measure implementation started in January 2022. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
34.	One-off wildlife inventory of the Task site before the commencement of works  Prior to the preparatory works, the Contractor's environmental supervision team referred to in item 90 will carry out a one-off wildlife inventory of the Task area.  In the event of the presence of habitats and species of fauna and flora subject to protection, for which it will be necessary to violate the bans set out in applicable regulations, it is necessary to obtain decisions allowing for derogations from the principles of species protection of plants, fungi and animals referred to in items 36-39.	Measure implemented and completed  Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2021, following the submission of the documentation to the Engineer.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
35.	Ongoing inspections conducted by the environmental supervision team during the Task implementation period  Works performed during the implementation of the Task should be carried out under the ongoing supervision of the Contractor's environmental supervision team (referred to in item 85).  These experts, in accordance with the specialisation and type of works performed, should, among others, carry out regular inspections of the entire Task area (at least once a month) and provide their comments and recommendations on an ongoing basis to the Contractor's staff responsible for carrying out the works in accordance with the conditions of the EMP.  Following the inspections, written notes should be made and attached to the monthly reports on the implementation of the EMP conditions (referred to in item 94).	Measure implemented and completed  Measure implementation started in October 2021 with the commencement of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
36.	Obtaining a decision authorising derogations from the rules on the species protection of plants, fungi, and animals  If, before the commencement (as part of a one-off wildlife inventory indicated in item 34 or during the implementation of construction works (see also item 35)), the presence of habitats or sites of protected species of flora and fauna is found in the Task implementation area, then the following conditions shall apply (indicated in items 36-39):  a) the Contractor shall obtain and submit for the Engineer's approval a written opinion of the environmental supervision team (referred to in item 90), including the determination of the need to obtain the decision referred to in item b), and then, if necessary in the light of the abovementioned opinion, implement measures referred to in items b-d (below);	Measure implemented and completed  Measure implemented where habitats or protected species sites were identified - October 2021 and February-May 2023. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
37.	b) before taking any measures that may lead to the destruction of habitats and sites of protected species or disturbing protected species (in accordance with the opinion referred to in	Measure implemented and completed

	item a), the Contractor shall obtain the administrative decisions required by law allowing for derogations from the bans applicable to protected species of plants, fungi, and animals;	Measure implemented where habitats or protected species sites were identified - October 2021 and February-March 2023. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item
		4.4 herein.
		Measure implemented and completed
38.	c) the Contractor shall submit the obtained decisions to the Engineer;	Measure implemented where habitats or protected species sites were identified – December 2021 and March, May, June 2023. Measure completed in October 2023, following the completion of construction works.
		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
39.	d) The Contractor shall implement the conditions contained in the above-mentioned decisions in a precise and timely manner (see also item 97).	Measure implemented where habitats or protected species sites were identified – in July-August 2022. Measure completed in October 2023, following the completion of construction works.
		No problems with the implementation of the measure or irregularities were identified.
40.	Checks on places likely to constitute traps for small animals  Every morning before works begin, excavations and other places that may constitute traps for animals: amphibians, reptiles, small mammals, should be checked.  In the periods from 1 March to 15 May and from 15 September to 15 October, a second check should also be carried out every day in the late afternoon.  Animals trapped in them should be collected and released outside the Task area in the appropriate location for the species (in the appropriate habitat).  The last check for the presence of animals in the excavations should be carried out immediately before backfilling.  The Contractor's staff, appropriately trained as per item 88, will carry out inspections in accordance with the guidelines of the herpetologist and mammal experts (referred to in item 90), who will coordinate and indicate the places where the caught animals should be released.  All wells and other human-made structures that may constitute a trap for amphibians and small mammals should be secured according to the comments and under the guidance of the abovementioned herpetologist and mammalogist.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
41.	Protection of natural habitats  The Contractor will erect temporary fencing of the construction site on sections of the railway line running adjacent to natural habitats 91E0* (Willow, poplar, alder, and ash riparian forests) and 3150 (Oxbow lakes and natural eutrophic water reservoirs with communities of Nympheion, Potamion) to protect the aforementioned natural habitats from interference during construction. The measure will be carried out under the supervision of a competent expert of the Contractor's environmental supervision team referred to in item 90. who will indicate a method of protection that minimises the risk of injury to animals (e.g., by getting entangled in the net).  The method of protection is subject to the agreement of the Engineer. The Contractor will inspect the condition of the protective devices and make any necessary repairs.	Measure implemented and completed  Measure implementation started in December 2021 with the commencement of construction works in the vicinity of the protected habitat patch. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.

	D	Measure implemented and completed
42.	Protection of amphibians In order to prevent amphibians from entering the construction site, it should be fenced off with herpetological fences in places adjacent to water reservoirs. The measure will be carried out under the supervision of the relevant expert of the Contractor's environmental supervision team referred to in item 90. The method of protection is subject to the agreement of the Engineer. The Contractor will inspect the condition of the protective devices and make any necessary repairs.	Measure implementation started in February 2022 before the start of the amphibian breeding season. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
43.	Cleaning up the site after the completion of the works, restoring the humus layer, and carrying out land reclamation.  Following the completion of the works:  a) dismantle the construction site facilities, temporary roads and yards, and remove the materials from the demolition outside the Task area to the previously agreed destination (approved by the Engineer);	Measure implemented and completed  Measure implementation started in July 2023 with the commencement of clean-up works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
44.	b) within the limits of the Task area, restore the fertile layer of soil (among others, using humus collected from the site in accordance with the conditions in items 20 - 25);	Measure implemented and completed  Measure implementation started in March 2023 with the commencement of reclamation works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
45.	c) carry out supportive measures for the restoration of green spaces (including grass sowing);	Measure implemented and completed  Measure implementation started in March 2023 with the commencement of reclamation works. Measure ended in November 2023, due to the end of the growing season.  The final acceptance protocol showed a defect regarding the incorrect execution of the grass sowing works for the section Warta – bridge over Suchodół on the south side of the embankment. Removal date – 31.07.2024.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
46.	d) ensure appropriate maintenance of the restored green areas (until the end of the Defects Notification Period).	Measure implemented and completed  Measure implementation started in June 2023 with a delay in relation to watering needs after the start of reclamation works. Measure ended in November 2023, due to the end of the growing season.  The final acceptance protocol showed a defect regarding the incorrect execution of the grass sowing works for the section Warta – bridge over Suchodół on the south side of the embankment. Removal date – 31.07.2024.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
47.	Measures described in items 43 - 46 shall be carried out by the Contractor under the supervision of an expert botanist-phytosociologist (referred to in item 90), including:	Measure implemented and completed

	<ul> <li>agreeing on the precise deadlines for works;</li> <li>agreeing on the precise location of places where humus is to be used;</li> <li>determining the species composition of grass mixtures;</li> <li>agreeing on the principles of maintenance of the designed green areas;</li> <li>submitting the results of the above-mentioned arrangements for the Engineer's approval;</li> <li>supervision over the performance of actions supporting the restoration of green areas and supervision over the maintenance of these areas (until the end of the Defects Notification</li> </ul>	The measure was implemented in accordance with the progress of the works – started ahead of time in terms of establishing documentation in June-July and November 2022. It was then implemented during reclamation works in March-October 2023. Measure ended in November 2023, due to the end of the growing season.  No problems with the implementation of the measure or irregularities were identified.
48.	Period).  Restoration of bird breeding sites  The Contractor will hang bird nesting boxes – 2 P-type boxes and 8 B-type boxes – on trees around the railway line.  The measure will be carried out under the supervision of an expert ornithologist of the Contractor's environmental supervision team referred to in item 90, who will submit to the Engineer measure documentation, including, inter alia, an indication of the location of the boxes (including GPS coordinates).  The measure should not be implemented before the start of the breeding season following the tree felling.  During the period of the Task, the contractor will carry out an annual inspection of the population and technical condition of the boxes and will restore them if they are damaged.	Measure implemented and completed  The measure was implemented as recommended by the ornithologist – the installation of the boxes was carried out in November 2022. This was followed by inspections and replacement of damaged boxes in October-November 2023. Measure completed in November 2023.  No problems with the implementation of the measure or irregularities were identified.
49.	Use of construction materials in accordance with regulations and standards and harmless to the environment Only environmentally sound construction materials (natural, environmentally friendly, or neutral) should be used to carry out the Task. The materials, raw materials, fuels, and cement-concrete mixes used should have appropriate certificates and approvals for use.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
50.	Operability and inspections of devices, vehicles, machinery, and equipment In terms of operability and inspection of devices, vehicles, machinery, and equipment, the following conditions shall apply:  Construction and transport equipment and machinery used in connection with the Task should be in good working order,  The Contractor shall conduct ongoing inspections of the condition of devices, vehicles, machinery, and equipment and shall eliminate by any available means the risk of any contaminants entering the ground and water environment, including in particular spillage of fuel, hydraulic oil and petroleum substances, during the handling, transport, and operation of devices, vehicles, machinery, and equipment.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
51.	Prevention of contamination with petroleum derivatives All earthworks should be carried out with particular caution, in a way that ensures the protection of soil, surface water, and groundwater against contamination, in particular with petroleum substances.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
52.	Handling of emissions of petroleum derivatives In the event of an emergency spill of petroleum substances or other consumables into water or	Measure implemented and completed

	ground, proceed to immediately neutralise the spill, collect, it and hand it over to entities authorised in the field of waste management for disposal, in accordance with the spillage prevention procedure indicated in item 82.  In the event of major emergencies, use the notification procedures described in item 80.	Measure implemented for petroleum substance emissions – February-July and November-December 2022, June-August 2023. Measure completed in November 2023, following the completion of remediation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
53.	Rules for refuelling vehicles, machinery and equipment Refuelling should be carried out using mobile or fixed fuel dispenser points with appropriate safeguards such as a sorbent station for eliminating potential fuel leaks and spills to the ground.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
54.	Parking rules for construction and transport equipment Construction and transport equipment used in connection with the Task must be moved at the end of the work or in the event of a breakdown to a parking area that ensures protection of the ground surface from contaminants entering the ground-water environment. Malfunctioning equipment must be taken out of the Task area immediately to be repaired.	Measure implemented and completed  Measure implementation started late relative to the construction start date - in February 2023. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
55.	Spill neutralisation agents The Contractor shall provide agents for neutralising leakage and waste at the construction site. Adequate quantities of the aforementioned agents (e.g. sorbents), suitable for use on solid surfaces and water surfaces, must be provided.	Measure implemented and completed  Measure implementation started late relative to the construction start date – in January 2023. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
56.	Environmentally safe storage of materials and raw materials  The materials and substances to be used in the implementation phase – which may cause ground contamination – should be stored only in appropriate containers, in places designated for this purpose, in an environmentally safe manner.	Measure implemented and completed  Measure implementation started in February 2022. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
57.	Restriction of working hours to daytime Works characterized by significant noise emissions, will be carried out (as far as possible) during daylight hours, i.e. from 6:00 am to 10:00 pm. Carrying out work at other times is subject to the approval of the Engineer.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.
58.	Reduction of noise and exhaust fumes from vehicles, machinery, and equipment  a) During the implementation of the Task, the quietest construction works technologies should be used, including, among others: using devices, vehicles, machines, and equipment that are as modern as possible, characterised by lower noise levels and fully technically efficient, switching off engines and devices not working at the given moment, limiting the time of engine operation at	Measure implemented and completed

	the highest speed, maintaining good work organisation. b) During the implementation of the Task, only fully operational vehicles, machines, devices, and equipment with sound emission (sound power) and exhaust emissions in accordance with applicable regulations should be used.	Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
59.	Reducing air pollution with exhaust gases In order to reduce the negative impact on the air condition: a) avoid leaving internal combustion engines idling when they are not running;	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
60.	b) vehicles should be parked with the engine off.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
61.	Reducing dust from the construction site and roads  During the implementation of the Task, the effects of secondary dust concentration should be reduced, in particular by:  systematic cleaning of the construction site and the construction site facilities;  spraying dusty road surfaces;  use of tight tarpaulins on vehicles carrying materials likely to cause dust during transport;  cleaning the wheels of vehicles before leaving for the access roads to the Task area.	Measure implemented and completed  Measure implementation started in May 2022 in line with the weather conditions during the construction period. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
62.	Maintaining clean roads In order to keep the roads clean, the following measures should be taken: a) The Contractor shall use all available technical measures and organise works in such a manner as to minimise the contamination of access roads to the Task implementation area. b) at the points of exit of heavy vehicles from the site, the Contractor shall install stations for the initial removal of soil and mud from vehicle wheels. The Contractor is obliged to immediately and systematically remove any contamination on the roads that occurred as a result of the movement of vehicles, machinery, and equipment related to the implementation of the Task.	Measure implemented and completed  Measure implementation started in January 2022 in line with the progress of the construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identified.
63.	Paving the site facilities and temporary roads The construction site facilities, as well as all technological roads and other places on which vehicles, machines, and equipment will travel, should be paved and sealed in technology appropriate for the equipment used. The technology used is subject to approval as part of the approval of the Site Arrangement Plan.	Measure implemented and completed  Measure implementation started in October 2021 in line with the progress of the construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
64.	Preparation of a Waste Management Plan (WMP)	Measure implemented and completed

2023, following the completion of
he measure. They are described in item
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he measure. They are described in item
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to the Contract start date - in October 2023, following the completion of
he measure. They are described in item
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	Order should be maintained, and the proper organisation of works should be ensured in the Task implementation area.  Prior to the commencement of works, the Contractor shall prepare, and obtain the Engineer's approval for, among others, the following documents related to safety at the construction site:  a) occupational health and safety plan (OHS Plan) – see chapter 6.14 of the EMP.	Measure implementation started late relative to the Contract start date – in September 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
71.	b) Site arrangement plan – see chapter 6.14 of the EMP.	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
72.	ES Code of Conduct The Contractor shall take all measures necessary to assure that Contractor's personnel have been informed on the ES Code of Conduct submitted along with the proposal and described in section 6.14 of the EMP, including on certain forbidden behaviours, and have understood the consequences of engaging in such forbidden behaviours.  The Contractor shall also make sure that the ES Code of Conduct is visibly exposed in areas where Contractor's personnel are present.  This applies to the Contractor and its personnel regardless of the legal basis of cooperation, and accordingly to Subcontractors and their personnel.	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
73.	Construction site fencing Prior to commencing construction works, the Contractor shall fence off the area. The height of the fence should be at least 1.5 m. If fencing off the construction site or works area is not possible, the boundaries of the area should be marked with warning signs and, if necessary, constant supervision should be ensured. The Contractor shall control the condition of the fence and warning signs and shall make the necessary repairs.	Measure implemented and completed  Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
74.	Supervision of the Task site by sappers  To minimise the risk due to the possibility of hazardous items of military origin occurring on the Task site, the Contractor shall provide:  • prior to the works – investigation of the Task site by sappers (a report of the investigation shall be submitted to the Engineer);  • during the works – sapper's supervision (carried out by the sapper's supervision team) involving ongoing checks and clearing the Task site of any hazardous military items, and disposing of such items;  • should any hazardous items of military origin be found at the Task site – implementation of the procedures laid down in item 81.	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in September 2021. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
75.	Implementation of guidelines for occupational safety requirements The Contractor shall ensure the implementation of detailed guidelines regarding the requirements of occupational safety, including in the following areas:  development of the construction site, including dangerous zones; storage and transport; electrical power installations and equipment;	Measure implemented and completed  Measure implementation started in November 2021 in line with the progress of the construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.

	<ul> <li>engineering machinery and equipment;</li> <li>works at height;</li> <li>earthworks;</li> <li>works carried out on water,</li> <li>demolition works;</li> <li>underwater works.</li> <li>contained in the applicable legislation and the occupational safety principles set out in the relevant documents of PKP Polskie Linie Kolejowe S.A.</li> </ul>	No problems with the implementation of the measure or irregularities were identified.
76.	Ensuring conditions of hygiene In the Task implementation area: a) provide leakproof sanitary facilities (e.g. in the form of the necessary number of portable toilets) and ensure they are used by the employees (Rules for handling domestic wastewater are set out in item 68).	Measure implemented and completed  Measure implementation started late relative to the construction start date – in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
77.	b) ensure that all staff members are trained in maintaining appropriate conditions of hygiene and cleanliness within the site and its immediate surroundings.	Measure implemented and completed  Measure implementation started late relative to the construction start date – in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
78.	Prevention of HIV -AIDS and other infectious diseases including, for example, COVID 19 The Contractor, through an approved service provider, shall implement an awareness-raising programme on the spread of HIV-AIDS (including appropriate training) and shall take all other measures to reduce the risk of transmission of HIV to the Contractor's personnel and to the local community. These measures should be implemented in accordance with the detailed conditions set out in the Contract Bidding Documents (Part 3, Section VIII – General Conditions, clause 6.7). The training sessions shall also cover other diseases (e.g. COVID 19).	Measure implemented and completed  Measure implementation started in September 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
79.	Principles of conduct in connection with the risk of flooding In connection with the risk of flooding, the Contractor shall prepare a document entitled: Site Flood Protection Plan, and secure the Engineer's approval (see chapter 6.14 of the EMP). In the event of flooding, the Contractor shall follow the procedures described in the aforementioned document. In particular, in the case of anticipated high water levels of the Warta and/or Odra, the Contractor shall secure the construction site against negative effects of surface water flow and shall evacuate people, equipment, and materials accordingly, and shall prevent the contamination of water with substances and materials originating from the construction site, including hazardous ones.	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in February 2022. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
80.	Rules of reporting emergency situations In case of emergency (other than flood), accident, major failure, etc., the Contractor must take the following measures:  immediately notify appropriate services (Fire Brigade, Ambulance Service, Police, etc.);  until the arrival of appropriate services, take actions necessary to mitigate the risk of loss in personnel, property and environment (agreed with appropriate services as far as possible);	Measure not implemented  Measure implementation was not required during the works.  There were no emergencies during the Contract period

	<ul> <li>notify the Engineer and Employer;</li> <li>upon the arrival of appropriate services, strictly comply with their instructions and recommendations.</li> </ul>	
81.	Rules of handling unexploded ordnance If any unexploded ordnance is found:  • stop the work immediately;  • evacuate people from the area surrounding the object;  • immediately notify the sapper's supervision team [see item 61] and the Police, and proceed as they instruct;  • notify the Engineer and Employer. It is absolutely forbidden to lift, excavate, bury, or relocate any unexploded ordnance, put it into fire or water, etc.	Measure implemented and completed  Measure implemented when unexploded ordnance or unexploded ordnance was found – February, May, June, November 2022, January, August 2023. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
82.	Principles of conduct in connection with the spillage of petroleum derivatives In connection with the risk of spillage of petroleum substances, the Contractor shall prepare the so- called spillage prevention procedure (see item 6.14 of the EMP) and obtain the Engineer's approval for it.	Measure implemented and completed  Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
83.	Ensuring the participation of an archaeological supervision team Throughout the entire earthworks period, the Contractor shall ensure the participation of a team of archaeological experts (the Contractor's archaeological supervision). The Contractor's archaeological supervision team is responsible for the implementation and/or coordination of the following measures: a) obtaining and updating permits for archaeological surveys and works at monuments, b) carrying out advance archaeological surveys, c) execution of the works in accordance with the conditions laid down by the Provincial Heritage Conservation Officer, d) properly securing valuable objects and other elements of the historic substance and to transport them from the works area to the designated site or institution, e) the development of an appropriate archaeological supervision action plan in the form of a Quality Assurance Plan.	Measure implemented and completed  Measure implementation started in September 2021 in line with the progress of the works. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
84.	Rules of procedure in case of discovering movable artefacts or archaeological sites  If the Contractor, in the course of carrying out the works, discovers an object presumed to be a monument, it shall (subject to the requirements in items 85-86 below):  a) halt all work likely to damage or destroy the objects uncovered and secure, using the available means,  b) immediately notify the Provincial Heritage Conservation Officer and, if this is not possible, the Mayor of Kostrzyn nad Odrą. At the same time, the Contractor notifies the Engineer in the above scope.  c) immediately notify the Contractor's team of expert archaeologists,  d) allow and ensure documentation activities, archaeological surveys and other necessary measures indicated by Contractor's archaeologists and/or administration authorities responsible to protect artefacts and other historic substance,  e) for immovable artefacts, after completion of the measures specified in item d, the Contractor shall implement the instructions and other measures determined by the archaeologists or administration authorities responsible to protect such objects and other historic substance,	Measure implemented and completed  Measure implementation started in May 2022 due to the discovery of a historic bridge abutment. Measure completed in October 2023, following the completion of construction works.  No problems with the implementation of the measure or irregularities were identified.

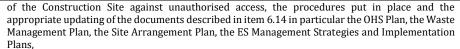
	The Contractor shall develop a procedure for dealing with the discovery of an object that has the characteristics of a monument.	
85.	Obtaining a permit from the Provincial Heritage Conservation Officer in the event of a discovery of movable monuments or archaeological sites during construction or ground works  To implement the provisions of the EMP described in item 84, the Contractor shall also obtain, if necessary, under a power of attorney granted by the Employer, a permit from the Provincial Heritage Conservation Officer (PHCO) for conducting a salvage archaeological survey.	Measure not implemented  Measure implementation was not required during the works.  During the term of the Contract, there was no need to obtain a permit from the Provincial Heritage Conservation Officer for conducting a salvage archaeological survey
86.	Conducting archaeological surveys in the area of earthworks within the Kostrzyn Fortress Occupation earth is also protected on the site of the Kostrzyn Fortress. For earthworks in the area, archaeological surveys are required with a permit from the Provincial Heritage Conservation Officer.  In view of the above, the Contractor will carry out archaeological surveys prior to the commencement of earthworks within the Kostrzyn Fortress on the basis of a permit from the Provincial Conservator of Monuments to carry out archaeological surveys. If necessary, the Contractor will update the above permit.  The Contractor's archaeological supervision team is responsible for the implementation and/or coordination of the above measures.	Measure implemented and completed  Measure implemented when archaeological surveys were required – December 2022 and July 2023. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
87.	Protection of objects entered in the register of historic monuments and included in the voivodeship list of monuments Works within the Kostrzyn Fortress and at objects included in the voivodeship list of monuments will be carried out under the supervision of the Contractor's archaeological supervision team, in accordance with the provisions of the permit and agreements of the Provincial Heritage Conservation Officer for carrying out works at monuments. If necessary, the Contractor will update the permit and agreements.	Measure implemented and completed  Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in October 2023, following the completion of construction works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
88.	Training of Contractor's personnel in EMP implementation  The Contractor must conduct training (to be concluded with a test checking the participants' knowledge) in the rules and conditions of the EMP and protection indications for the time of construction, dedicated to Contractor's executives and engineers supervising the construction, which training should be prepared by Contractor's team of naturalists. The Contractor's employees who handle fuels, other oil derivatives or any other substance harmful to health or environment should be trained in the rules of preserving groundwater environment and using measures for its preservation, including the use of sorbents.  In the monthly reports submitted to the Engineer, the Contractor shall provide information on the status of training of Contractor's personnel in the conditions of the EMP in the current reporting period.	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in November 2021 – and was carried out as required to ensure that 100% of the Contractor's employees were trained. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
89.	Designating Contractor's EMP Coordinator  There shall be a person designated in Contractor's team to coordinate and monitor the measures involved in EMP implementation.  The person shall be responsible for the following, without limitation:  • supervising the implementation of various requirements of the EMP at each stage of executing the Task;  • day-to-day monitoring over the status of implementing each requirement stated in Appendices 1 and 2 to the EMP at the Task site;	Measure implemented and completed  Measure implementation started late relative to the Contract start date – in September 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.

	day-to-day reporting to Contractor's team management on the obligations arising from the EMP	
	at a given stage of works, and of any issues concerning the implementation of the EMP;	
	• cooperation with the rest of the Contractor's team (including in particular supervising the	
	environmental supervision team referred to in item 90) in the scope of ensuring the implementation	
	of the EMP;	
	• reporting on the implementation of the EMP (in accordance with the rules specified in items 94-	
	97);	
	• collaborating with persons responsible for implementing the EMP from Engineer's and	
	Employer's teams.	
	The EMP Coordinator may not be a member of Contractor's environmental supervision team	
	(environmental supervision).	
	The person appointed for this position must be approved by the Engineer.	
	Ensuring the participation of the Contractor's environmental supervision team	
	Throughout the entire Task implementation period, the Contractor shall ensure the participation of	
	the Contractor's environmental supervision team consisting of representatives of the following	
	specialisations:	
	a) botanist-phytosociologist (natural habitats and protected plant species);	
	b) dendrologist (principles of tree care	
	and securing trees);	Measure implemented and completed
	c) zoologist-herpetologist (amphibians and reptiles);	•
	d) zoologist-ornithologist (birds);	Measure implementation started late relative to the Contract start date - in
	e) zoologist (flightless mammals);	September 2021. Measure completed in November 2023, following the completion
90.	f) zoologist-chiropterologist (bats);	of reclamation and clean-up works.
		of reclamation and clean-up works.
	g) zoologist-entomologist (insects).	
	The experts shall be engaged in certain mitigation and monitoring measures set out in the EMP, in	Failures were found in the implementation of the measure. They are described in item
	particular:	4.4 herein.
	a) mitigation measures listed in Appendix 1 to the EMP in items, in particular: 24-48, 91.	
	b) monitoring measures listed in Appendix 2 to the EMP, in items, in particular: 24-48, 91.	
	The members of the Contractor's environmental supervision team must be approved by the	
	Engineer.	
	One member of the environmental supervision team may represent up to two environmental	
	specialities listed in items a)-e) above.	
	Tasks of the Contractor's environmental supervision team	
	The task of environmental supervision will be to take appropriate protective measures in the event	
	of finding a threat to protected species of fauna and flora as a result of works. In particular, the	
	duties of environmental supervision should include:	
	- before the Task commences, checking the area in which works are to be carried out for	Measure implemented and completed
	the presence of sites of protected species (see item 34);	
	- in the event of the presence of habitats and species of fauna and flora subject to	Measure implementation started late relative to the Contract start date - in
1	protection, for which it will be necessary to violate the bans set out in applicable regulations,	September 2021. Measure completed in November 2023, following the completion
91.	obtaining appropriate permits for the implementation of these measures before starting	of reclamation and clean-up works.
		of reclamation and clean-up works.
1	construction works (see items 36–39);	Failure was found in the implementation of the control of the cont
1	- carrying out supervision during construction work, including in particular: removing	Failures were found in the implementation of the measure. They are described in item
	trees and shrubs, marking habitats and sites of protected species, restoring green areas (see also	4.4 herein.
	items 27-33, 40-42, 44-48).	
	- training the contractor's employees on how to proceed in the event of situations posing	
1	a threat to the natural environment at the construction site, including in the scope of measured	
	related to the control of places that may constitute traps for small animals referred to in item 88.	
L	Touced to the control of places that may constitute traps for small animals referred to in term oo.	

Throughout the entire Task implementation period, the Contractor shall ensure the partic	Measure implemented and completed
the sapper's supervision team.  The team shall implement selected mitigation measures specified in the EMP (in part applies to measures listed in item 74).  Depending on the needs, the sapper's supervision team may consist of one or more personal teams.	Measure implementation started late relative to the Contract start date – September 2021. Measure completed in October 2023, following the completion construction works.
a relevant professional licence. The members of the sapper's supervision team must be by the Engineer.	approved Failures were found in the implementation of the measure. They are described in it 4.4 herein.
Ensuring the participation of an archaeological supervision team  Throughout the entire earthworks period, the Contractor shall ensure the participation o archaeological experts (the Contractor's archaeological supervision). These expert involved in the implementation of the selected mitigation measures identified in the	s will be Measure implementation started late relative to the Contract start date -
particular those described in items 83 - 87). The experts from the archaeological supervimust hold relevant professional licences. The composition of the team of archaeologist approved by the Engineer.	sion team s must be september 2021. Measure completed in October 2023, following the completion construction works.
Prior to the works, the Contractor shall submit to the Engineer for approval the Quality . Plan covering the activities of the archaeologists.	Assurance Failures were found in the implementation of the measure. They are described in it 4.4 herein.
Reporting the status of implementation of the EMP in monthly reports  During the execution of the Task, the Contractor shall in a timely manner submit month	
on the implementation of the conditions specified in the EMP to the Engineer (in the checklist with necessary appendices, including reports on environmental supervision).  The Contractor shall prepare a template of the above-mentioned report (checklist) and Engineer's approval for this document.	bbtain the September 2021. Measure completed in November 2023, following the complete of reclamation and clean-up works.
Depending on the circumstances, the Engineer may require the Contractor t additional reports, regarding, among others, the occurrence of crisis situat implementation of selected items of the EMP, etc.	ions the Fallares were jound in the implementation of the measure. They are described in it
	4.4 пететі.
Discussing the implementation of the EMP at working meetings and Constructio Meetings	4.4 пететі.
Discussing the implementation of the EMP at working meetings and Construction Meetings In the period of Task execution, monthly meetings of the representatives of the PIU, the and the Contractor shall be held to discuss and check the implementation of the mitig monitoring measures set out in the EMP.	Engineer, ation and  Measure implemented and completed  Measure implementation started in August 2021. Measure completed in Novemb 2023, following the completion of reclamation and clean-up works.
Discussing the implementation of the EMP at working meetings and Construction Meetings In the period of Task execution, monthly meetings of the representatives of the PIU, the and the Contractor shall be held to discuss and check the implementation of the mitig	Engineer, ation and Measure implementation started in August 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  No problems with the implementation of the measure or irregularities were identification.
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		Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
98.	Contractor's responsibility for ES compliance The Contractor shall ensure the implementation of all requirements and conditions of the ES referred to in item 72. This applies to the Contractor and its personnel regardless of the legal basis of cooperation, and accordingly to Subcontractors and their personnel.	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
99.	Prevention of sexual harassment and mobbing The Contractor must ensure such conditions during execution of the Contract as to prevent any case of mobbing or sexual harassment of their personnel, Subcontractors and other persons (whether or not involved in the execution of the Contract).	Measure implementation started in December 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	not involved in the execution of the contracty.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
		Measure implemented and completed
100.	Raising awareness about the prevention of sexual harassment and mobbing The Contractor, through an approved service provider holding relevant qualifications, shall conduct training courses and implement a scheme raising awareness about the prevention of sexual harassment and mobbing. These measures shall be implemented throughout the term of the Contract, including the Defects Notification Period, at least every other month. They shall take the form of informational, educational, and awareness-raising campaigns.	Measure implementation started late relative to the Contract start date - in October 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.  Failures were found in the implementation of the measure. They are described in item 4.4 herein.
	Reporting cases of sexual harassment and mobbing	Measure implemented and completed
101.	The Contractor must immediately notify the Consultant of any reported or suspected case of sexual harassment and mobbing.  All reported and suspected cases of sexual harassment and mobbing shall be entered into the Book of Complaints and Requests kept by the Contractor.  If any case of mobbing or sexual harassment is found, the Contractor must take measures to	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	immediately terminate such behaviours and draw all legal consequences against the offenders. The Contractor must also provide any necessary assistance and support to the victims.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
	Allowing the submission of complaints and requests by personnel involved in the Task	Measure implemented and completed
102.	The Contractor shall inform all persons employed on the construction site that they may submit a complaint about their working and payment conditions, and shall deliver an information leaflet stating all information on such submission, including a guarantee that the person submitting a complaint will bear no consequences.	Measure implementation started late relative to the Contract start date - in November 2021. Measure completed in November 2023, following the completion of reclamation and clean-up works.
	The Contractor shall keep the Book of Complaints and Requests The contents of the leaflet and the format of the Book shall be agreed with the Consultant.	Failures were found in the implementation of the measure. They are described in item 4.4 herein.
	Provision of safe working conditions The Contractor shall provide such conditions, both at and outside the Task site (during Task-related	Measure implemented and completed
103.	activities, e.g. during transport), to prevent any accident involving persons engaged in the implementation of the Contract, including the personnel of the Contractor, Engineer, Investor, Subcontractors and others, as well as third parties.  In case of such an accident, it is required to:	Measure implementation began in November 2021, i.e., the first full month of construction works. Measure completed in November 2023, following the completion of reclamation and clean-up works.

	immediately provide appropriate assistance to the injured person;	No problems with the implementation of the measure or irregularities were identified.
	secure the scene;	
	• notify the Engineer as soon as possible about the event and the manner it was handled	
	<ul> <li>by the Contractor;</li> <li>notify appropriate services and allow them access to the scene.</li> </ul>	
	Employment conditions for adolescent workers	Measure not implemented
	The Contractor may hire for the Contract only such adolescent workers who are at least 15 years of	The same and imposition and in the same and in
104.	age, completed an at least eight-year primary school, and presented a medical certificate confirming	Measure implementation was not required during the works.
104.	that the assigned type of work does not pose any risk to their health. The Contractor shall ensure	
	that juveniles (persons under the age of 18) will not perform works prohibited to juveniles in	During the period of the Contract, the Contractor did not employ any adolescent
	accordance with applicable regulations (see p. 6.15. of the EMP).	workers Measure implemented and completed
	Contractor's OHS supervision	Measure implemented and completed
	The Contractor shall ensure continuous OHS supervision during the implementation of the Task.	Measure implementation started late relative to the Contract start date - in
105.	The scope of duties, qualifications and composition of Contractor's OHS services shall conform to	November 2021. Measure completed in November 2023, following the completion of
103.	Polish labour law	reclamation and clean-up works.
	Before the works, Contractor's OHS supervisors shall carry out dedicated training for Contractor's personnel on work safety and the risk of accident while implementing the Task.	Failures were found in the implementation of the measure. They are described in item
	personner on work safety and the risk of accident while implementing the rask.	4.4 herein.
	The Contractor must apply and observe all labour law provisions applicable in Poland, in particular	
	all the provisions of the Labour Code, and comply with the ES Code of Conduct. In particular, the	
	following issues should be reflected in Contractor's employment policy and salary regulations:	Measure implemented and completed
	• the assurance of equality in remunerating employees who perform the same work, without regard to their gender, age or sexual orientation;	Measure implementation started late relative to the Contract start date - in
	<ul> <li>the assurance that persons employed for the Contract will not be persecuted or discriminated on</li> </ul>	September 2021. Measure completed in November 2023, following the completion
106.	the grounds of gender, sexual orientation or age;	of reclamation and clean-up works.
	• the assurance that the Contractor will, according to its capacity, conditions and the provisions of	
	the Polish Labour Code, satisfy the needs of its personnel in terms of welfare and amenities in the	Failures were found in the implementation of the measure. They are described in item
	<ul><li>place of work;</li><li>the assurance that the Contractor facilitates the improvement of professional qualifications of its</li></ul>	4.4 herein.
	personnel.	
	If a state of epidemiological threat or epidemic applies during the works, the Contractor	
	shall:	
	a) provide persons remaining at the construction site with all necessary preventive measures to	
	maintain the health and safety of workers and Contractor's Personnel, in the scope defined in the Conditions of the Contract, in particular by taking adequate measures to avoid or minimise the	
	spread of diseases, including measures aimed to avoid or minimise the spread of infectious diseases	Measure implemented and completed
	which may be related to the inflow of permanent workforce in connection with the Contract, in the	Measure implementation began in November 2021, i.e., the first full month of
	manner prescribed by applicable laws, for example by the Regulations on establishing certain	construction works. Measure completed in November 2023, following the
107.	restrictions, orders and prohibitions due to the state of epidemics, issued under Article 46a of the	completion of reclamation and clean-up works.
	Act of 5 December 2008 on the prevention and fighting against infections and infectious diseases of human (consolidated text: Polish Journal of Laws 2019, item 1239, as amended),	
	b) designate a person responsible within the Contract for matters concerning the health and safety	Failures were found in the implementation of the measure. They are described in item
	at work during epidemics or the state of epidemiological threat,	4.4 herein.
	c) implement relevant recommendations of the World Bank and sanitary services for the territory	
	of the Republic of Poland,	
	d) co-operate with the Contracting Authority and the Engineer, in particular to provide ongoing information on the procoutions taken or planned including with regard to the appropriate occupity.	
	information on the precautions taken or planned, including with regard to the appropriate security	



- e) organise an information campaign (e.g. in the form of posters and instructions placed at the Construction Site) concerning the symptoms and signs of infection, the spread of the virus, and the methods of protection (including regular hand washing)
- f) arrange training sessions for workers and Contractor's Personnel, covering at least the following: i. revised procedures and documents,
- ii. the symptoms and signs of COVID-19 (or any other infectious disease related to an introduced state of epidemic / epidemiological threat), including independent monitoring of such symptoms, the spread of the virus, and available protective measures,
- iii. procedure in case of noticing any symptoms of the disease in ourselves or other persons,
- iv. applicable regulations concerning the quarantine of employees and their families, remuneration for the period of disease, isolation or quarantine, the provision of healthcare, including sanitary transport provided to prevent infection,
- v. applicable procedures of reporting any breach or filing complaints by employees,
- vi. waste handling, for example masks, gloves, disinfectants and cleaning agents.

During the state of epidemic or the state of epidemiological threat, as far as permitted by law, training sessions should be conducted through means of electronic communication or in the form of self-training.

The aforesaid rules shall be applied in an appropriate manner in case of the state of epidemic or the state of epidemiological threat established in the Republic of Poland due to any other infectious disease.

## Part II. Checklist for the implementation of monitoring measures listed in Appendix 2 to the EMP for Contract 1B.5/3.

Item	Monitoring measures according to Appendix 2 to the EMP	Implementation status in the reporting period
1-111	Monitoring of the implementation of mitigating measures from Appendix 1 to the EMP	Implemented and completed
	Monitoring subject As described in items 1-111 in Appendix 2 to the EMP.	Monitoring of measures started from the date of Contract signature, i.e., in Q3 2021. Subsequent measures were implemented according to the
	Monitoring location As described in items 1-111 in Appendix 2 to the EMP.	progress of the works. Monitoring was carried out until the end of the reporting period, Q3 2023.
	Mode of monitoring As described in items 1-111 in Appendix 2 to the EMP.	
	Time and frequency of monitoring As described in items 1-111 in Appendix 2 to the EMP.	No problems were found with the implementation of monitoring measures.
	Monitoring unit: Engineer and Contractor (as described in items 1-111 in Appendix 2 to the EMP).	

## Part III. List - quantitative summary of the implementation of measures listed in Appendix 1 and 2 to the EMP in the reporting period

The table below presents a quantitative summary of the implementation of measures listed in Appendix 1 and 2 to the Environmental Management Plan (EMP) for Contract 1B.5/3 in the reporting period.

Category	Mitigation measures items 1-107 in Appendix 1 to the EMP		Monitoring measures items 1-111 in Appendix 2 to the EMP	
	Quantity	Item No.	Quantity	Item No.
Measures implemented and completed in the reporting period	99	1-10, 12-17, 19-20, 22-29, 32-79, 81-84, 86-103, 105-107	111	1-111
Measures not implemented in the reporting period (deemed not relevant for the reporting period – there was no need for implementation)	8	11, 18, 21, 30, 31, 80, 85, 104	-	-