

Appendix 2 – Plan of monitoring measures

This appendix to the Environmental Management Plan (EMP) for the *Contract 1B. 1/1 (a): Reconstruction of river control infrastructure on the Odra river. Adaptation of the conditions of Class III waterway on the section from the village of Ścinawa to the estuary of the Nysa Łuzycka River – Stage II* describes the conditions for implementing the Task concerning the monitoring measures corresponding to the mitigation measures included in Appendix 1 of the EMP, as well as environmental monitoring of construction works conducted by Contractor's environmental team, in accordance with the provision concerning this manner in the environmental decision (copy of the abovementioned decision is shown in Annex 4a and 4b to the EMP). Data presented in the following tables show the juxtaposition of monitoring measures for the Contract 1B.1/1 (a) which are to be implemented by the Contractor and the Engineer.

Explanations of the table in Appendix 2 of the EMP:

- 1) unless otherwise stated in a particular case, the term **Task implementation area** means the area of performing any preparatory works, essential works (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed during the Defects Notification Period, together with the lands subject to temporary acquisition,
- 2) unless otherwise stated in a particular case, the term **Task implementation period** means the duration of any preparatory works, essential works execution (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed in the Defects Notification Period,
- 3) unless otherwise stated in a particular case, the term **Contractor's team** in column *Responsible entity* means personally the EMP Coordinator in the Contractor's staff (referred to in item 121 in Appendix 1 to the EMP), cooperating with the Site Manager and the rest of the Contractor's Staff (including a team of environmental experts, team of archaeological experts, explosive ordnance disposal experts, Occupational Health and Safety (OHS) Supervisors),
- 4) unless otherwise stated in a particular case, the term **Engineer's team** in column *Responsible entity* means personally the Environmental Management Expert in the Engineer's staff, cooperating with relevant Supervising Inspectors and the rest of the Engineer's staff.

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
01 – AQUISITION OF LAND FOR DEVELOPMENT						
1.	Land area and landscape protection	Restricted use and transformation of the area It is required to ensure the minimal use of the area and minimal transformation of its surface while carrying out works connected with the Task implementation.	Task implementation area	Verification of Contractor's documentation regarding the area takeover. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
2.	Land area and landscape protection	The rules for designating and equipping of temporary occupation sites The following rules should be applied upon designating and equipping of temporary occupation sites: a) before starting the construction works stage, it is necessary to prepare construction backyards to serve as: storage sites for the building materials, soil and humus, garage, a place to refuel and conduct current repairs of vehicles, machinery and devices, location of social facilities (changing rooms, office, workshop, portable sanitary cabins) and waste containers.	Task implementation area	Verification of Contractor's documentation regarding arrangement of the construction backyards, equipment depots and temporary technological roads. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team

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		<p>b) the surface designated for construction backyards should be limited to the essential minimum;</p> <p>c) construction backyards, equipment depots and temporary technological roads should be located outside the existing greenery (determined according to the geodetic classification), on hardened and insulated ground, in a manner ensuring economical use of the site and minimal transformation of its surface;</p> <p>d) the places specified in subsection c. must be located outside the area indicated by the Contractor's environmental team as environmentally valuable areas;</p> <p>e) the construction backyards will be located in the port areas of Cigacice, Nowa Śól and Krosno Odrzański</p>		<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of participation of the required experts.</p>	<p>On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.</p>	<p>Engineer's team</p>

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3.	Land area and landscape protection	<p>Aspects concerning the location of technological roads</p> <p>Technological roads for transport of materials (fascine, stone) to the <i>Task implementation area</i> should be determined on the basis of existing roads outside the areas identified by environmental team as of high nature value. The surface should be limited to the essential minimum required for the Task implementation area.</p> <p>Requirements concerning the use of access roads to the Task implementation area as well as the surrounding area are described in item 22 of App. 1 of EMP.</p>	Task implementation area	<p>Verification of Contractor's documentation regarding technological roads preparation.</p> <p>Visual monitoring, photographic documentation.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of participation of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.	Engineer's team

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4.	Land area and landscape protection	<p>Rules while determining sites</p> <p>Materials used for groynes reconstruction can be stored in their immediate vicinity, but only in places that do not damage patches of natural habitat and the habitats of protected species of plants, fungi and animals. The location of these types of places, prior to their establishment, is agreed by the environmental experts team of the Contractor, taking into account the results of a singular environmental field inventory referred to in item 5 of App. 1 of EMP. The location of these types of places is submitted to the Engineer for their approval.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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02 – REQUIREMENTS CONCERNING PROTECTION OF THE BIOTIC NATURAL RESOURCE						
5.	General principles of protection of the biotic natural resource	<p>Carrying out one-off environmental inventory control</p> <p>All works should be preceded by one-off inventory (carried out by the team of environmental experts as referred to in item 84) of temporary and permanent construction sites in order to:</p> <ul style="list-style-type: none"> a) establish up-to-date distribution of natural habitats included in Annex 1 of Habitats Directive (Council Directive 92/43/EWG), as well as sites of protected species of plants, animals and fungi, b) establish places of potential localities of these valuable species, submit the results of the inventory to the Engineer within 21 days of its completion. 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of participation of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of participation of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
6.	General principles of protection of the biotic natural resource	<p>Prevention of the spread of invasive species and their elimination</p> <p>In order to prevent the spread of invasive species in the construction area and its surrounding, the following measures should be taken:</p> <ul style="list-style-type: none"> a) Prior to commencement of earthworks, it is necessary to perform examination of the Task implementation area with phytosociologist/botanist to determine the habitats and population of invasive plants (mostly beggar-ticks <i>Bidens frondosa</i>); b) Once their localities are established and clearly marked, measures against spreading of invasive plants in the construction area should be taken such as removing of humus layer with the identified invasive species and relocate safely into composting plant or eliminate in other effective way. c) It is forbidden to mix the removed layer with humus layer full of native plant species. 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of participation and arrangements of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of participation and arrangements of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
7.	General principles of protection of the biotic natural resources	<p>Requisite permissions for departures from ban concerning protected species</p> <p>The Contractor (if necessary and in line with the results of environmental inventory referred to in item 5 of the App. 1 of the EMP) will get requisite permissions for departures from ban concerning protected species of plants, fungi and animals issued according to the Act of April 16th, 2004 on nature conservation.</p> <p>If the relevant permissions are obtained, the Contractor shall perform activities specified in the administrative decisions and draw up required report on their implementation with accordance to their content. Reports shall be submitted to the Engineer 30 days prior to the date of their submission to the Authority that issues relevant permits.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of participation and arrangements of the required experts.</p> <p>Inspection of the progress of obtaining and handing over the required administrative decisions and reports on their implementation to the Engineer.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of participation of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.	
8.	Protection of biotic nature	<p>Relocation of protected species outside the borders of construction area</p> <p>In case of necessity of relocation of protected species outside the borders of construction area, the Contractor is obliged to organize all activities connected with the procedure</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of participation and arrangements of the required experts.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.	Contractor's team

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		including gaining relevant permissions, effective relocation and meeting other demands resulting from permissions (such as drafting and submitting reports to licensing authority).		Inspection of the progress of obtaining and handing over the required administrative decisions.		
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation. Verification of participation of the required experts.	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month.	Engineer's team
9.	General principles of protection of the biotic natural resource	Reduction of losses in specimens of mussels In order to reduce losses in specimens of mussels (remaining a breeding habitat for the protected species of fish – Amur bitterling) one shall verify materials dredged from the Odra bottom and collect specimens of mussels present on the surface of dredged materials. Collected specimens shall be transferred and placed in the river in locations assuring their safety. The verification shall be done directly after dredging and prior to the completion of works on a given day. In time, when the air temperature would amount to more than 20°C the verification of dredged materials shall be done at least every 4 hours.	Task implementation area	Visual monitoring, photographic documentation. Verification of participation of the required experts.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation. Verification of participation of the required experts.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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10.	General principles of protection of the biotic natural resource	<p>Exemptions of fish spawning season from the dates for performing works</p> <p>Works related to the removal of excess sediments from the riverbed shall be carried out outside the spawning season of the fishes which are present at the sites intended for construction (i.e. outside the period from 1st March to 31st August).</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of works schedules.		
11.	General principles of protection of the biotic natural resource	<p>Time limit of performing works due to the bird protection</p> <p>In order to eliminate the risk of disturbance of the protected bird species for which the Natura 2000 Special Protection Area Dolina Środkowej Odry PLB080004 has been established, the construction works and the hydrotechnical works shall be performed beyond the period from 1 March to 31 August.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of works schedules.		
12.	General principles of protection of the biotic natural resource	<p>Area limit due to the nature protection</p> <p>In order to avoid damage done to natural habitats, the territory used as a Task</p>	Task implementation area	Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
				Visual monitoring, photographic documentation.		
12.	General principles of protection of the biotic natural resource	<p>Area limit due to the nature protection</p> <p>In order to avoid damage done to natural habitats, the territory used as a Task</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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		Implementation area should be limited to essential minimum.		over from the Contractor to the Engineer.		
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
13.	General principles of protection of the biotic natural resource	<p>Setting up proper work schedule for Task implementation</p> <p>The Contractor shall provide such a work schedule in which deadlines and locations of various stages of the Task implementation, will meet the conditions of the environmental decisions and EMP, as well as to the utmost extent will limit the negative impact on the protected species occurring in the area of the Tasks and its surroundings.</p> <p>Demands concerning dates and deadlines of the works are mentioned also in items 10,11 and 41 of App. 1 of EMP.</p>	Places of removal of millings as well as given sections of groynes	Visual monitoring, photographic documentation. Verification of works schedules.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
14.	General principles of protection of the biotic natural resource	<p>The use of substances and materials which are safe for animals</p> <p>Substances and materials that could be lethal in relation to animals occurring in the Task implementation area and its vicinity should not be used during the Task implementation.</p>	Places of removal of millings as well as given sections of groynes	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
15.	General principles of protection of the biotic natural resource	<p>Taking into account the specificities resulting from the existence of protected areas</p> <p>In the course of construction works, the Contractor is obliged to comply with the norms, prohibitions and indications and to respect the limitations resulting from the existence of areas and objects created on the basis of the Act of 16th April 2004 on the Nature Conservation.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of works schedules.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring, photographic documentation.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
16.	General principles of protection of the biotic natural resource	<p>Reduction of animal mortality during construction works</p> <p>The works should be executed in a way that allows avoiding killing of animals. Works within groynes, vicinity of which may contain amphibian habitats (in accordance with the results of a singular environmental field inventory referred to in item 5 of App. 1 of EMP) shall be commenced under the supervision of an</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of works schedules</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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		expert herpetologist, who, in the case of their increased mortality, will determine additional conditions for the construction that would limit that rate.		Verification of participation and arrangements of the required experts.		
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation. Verification of participation of the required experts.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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03 – REQUIREMENTS CONCERNING EARTH MASS EXCAVATED DURING CONSTRUCTION WORKS						
17.	Requirements concerning treatment of excavated earth masses	<p>Requirements concerning treatment of soils from riverbed</p> <p>The following rules should be followed for dealing with sediments extracted from the riverbed:</p> <ul style="list-style-type: none"> a) if contaminated soils are discovered (with exceeded values of permissible substance concentrations in accordance with current regulations concerning Waste Act, Environmental Law and executive acts of the aforementioned Acts), they must be removed and handed over to entities holding adequate permissions for their further management., b) in case of uncontaminated soils, it is possible to restore them or reuse them for groyne reconstruction. Surplus soil will be shipped with the use of floating equipment to the ports serving as construction backyards (in Nowa Sól, Cigacice, Krosno Odrzańskie) and managed there according to applicable law (pursuant to the Waste Act), c) in accordance with the results of qualitative tests of the extracted output and its classification in that respect, contaminated sludge will be transported by water to the unloading sites situated in the above-mentioned ports to be eventually loaded onto the means of land transport and shipped to the appropriate landfills, 	Task implementation area	<p>Visual monitoring, photographic documentation. Verification of documentation on the soil quality and its conformity with the governing law.</p> <p>Evaluation of the progress of works on reviewing the framework of soil classification and the possibilities of their on-site use.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team

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		d) the exact locations of the designated landfills to which contaminated sludge will be transported shall be selected by the Contractor and must be pre-approved by the Engineer. These landfills must meet, in accordance with legal regulations, requirements in terms of storage capacity of ground masses with different levels of pollution.		Visual monitoring, photographic documentation.		
18.	General principles of protection of the biotic natural resource	<p>Ban on storage of the excess of ground masses in the riverbed and in the inter-groyne zone</p> <p>Excessive ground masses and other materials obtained from rebuilt groynes and sediment in the bottom shall not be stored in the riverbed and in the areas between groynes or in the inter-embankment zone of the Odra River. Excessive ground masses and other materials shall be managed in accordance with guidelines in item 17 of App. 1 of EMP and relevant waste management regulations.</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation regarding handling of the ground masses.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer. Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
19.	Requirements concerning control tests and treatment of excavated earth masses	<p>Principles of transporting and handling of ground masses</p> <p>The shipment of excavated material by water can be carried out by any means of transport accepted by the Engineer. Loading, transport and unloading of materials should be carried out in accordance with the provisions of SHP, OHS</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation regarding the handling of ground masses, including the <i>Quality</i>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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		<p>and road traffic regulations (in the case of transport that takes place on public roads, of materials derived from dredging works).</p> <p>The technology of transshipment works, including the provisions for a temporary storage of ground masses within ports, will be described by the Contractor in the Quality Assurance Plan, which must be approved by the Engineer prior to the commencement of works included in it. The adopted technology can not cause environmental pollution within adjacent areas.</p> <p>The area of the river bank used for reloading of ground masses should be equipped in devices for rainwater treatment (in order to protect surface waters against contamination with oil derivatives).</p>		<p>Assurance Plan in that scope.</p> <p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>

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04 – REQUIREMENTS CONCERNING COMMUNICATION SERVICE IN THE TASK IMPLEMENTATION AREA						
20.	Land area and landscape protection	<p>Transport of building materials to construction sites</p> <p>Transport of building materials and machines for reconstruction of groynes will be carried out by water to particular sections of construction sites. It is possible to use light construction equipment on existing unpaved roads providing they do not affect the deterioration of natural environment, such as Natura 2000 in particular. While establishing the access routes, the results of one-off environmental inventory mentioned in item 5 of App. 1 of EMP should be taken into consideration.</p> <p>The location of the access routes should be submitted by the Contractor to the Engineer for their approval.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of Contractor's documentation regarding communication service on the Task implementation area.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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21.	<p>Protection of material goods</p> <p>Protection of human health and safety</p> <p>Land area protection</p>	<p>Conditions for the use of access roads to the Task implementation area</p> <p>In the scope of the use of access roads to the <i>Task implementation area</i> the following conditions apply:</p> <p>a) The Contractor shall prepare design of traffic organization of the Task implementation area in accordance with Technical Specifications and regulations of Road Authorities concerning transport roads and conditions for their use;</p> <p>b) The Contractor is obliged to agree the traffic and work protection designs with the Road Authorities. The Contractor is obliged to carry out the traffic organization according to the agreed designs (marking and securing the <i>Task implementation area</i> and marking detours and recommended road marking connected with a change of traffic organization, etc.);</p> <p>c) Prior to the works, the Contractor shall submit the traffic organization and work protection designs agreed with the Road Authorities to the Engineer for approval. Depending on the needs and progress of works the designs of road traffic changes shall be updated by the Contractor on a regular basis. (these adjustments have to be agreed with the Road Authorities);</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of Contractor's documentation regarding communication service on the Task implementation area.</p> <p>Inspection of the progress of works on the agreement in question and its compliance with the requirements of the EMP.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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		<p>d) The Contractor shall ensure proper markings of all access roads to the <i>Task implementation area</i> in accordance with applicable law and as agreed with the relevant Road Authorities. These markings will be monitored regularly, and in the case of damage or theft, the Contractor shall immediately restore or supplement these markings;</p> <p>e) Hardened surfaces (e.g. access roads), over which the vehicular traffic transporting building materials and aggregates will take place, should be kept clean and in due technical condition;</p> <p>f) The Contractor is obliged to prepare photographic documentation of the entire Task implementation area and of the access roads, with a special emphasis on the technical condition of roads and buildings located near the routes used for transporting building materials,</p>		<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>

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		<p>g) The Contractor shall be responsible for all damage to buildings and structures, roads, drainage ditches, culverts, water and gas pipes, poles and power lines, cables, points of geodetic control network and installation of any kind, and objects of another kind as horizontal and vertical marking, navigation marking, signage, cultural objects, etc., caused by him or his Subcontractors within the <i>Task implementation period</i>. The Contractor is also responsible for restoring the flow capacity of ditches and drainage systems in the area of works and used transport roads in the event of damage caused by construction works and transport connected with the works;</p> <p>h) The Contractor shall immediately repair any resulting damage at his own expense and, if necessary, carry out other work ordered by the Engineer;</p> <p>i) The Contractor shall apply to statutory restrictions for the axle load at the transport of materials to and from the <i>Task implementation area</i>. The Contractor shall obtain all necessary permits for the transport of atypical loads and continuously notify the Engineer of any such carriage.</p>				

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
22.	Protection of human health and safety	<p>Safety conditions for water transport</p> <p>In the case of means used for waterway transport, the following guidelines should be applied:</p> <ul style="list-style-type: none"> a) means of transport (sets of floating equipment) must meet the requirements applicable in this respect, and be in accordance with the regulations in force in the Republic of Poland covering the inland navigation, b) means of transport (sets of floating equipment) in terms of parameters must be adapted to the conditions resulting from the current class of the waterway, c) the use of vessels in the implementation of works requires agreement with the waterway administrator and relevant local Director of the The Inland Waterways Authority, d) before the commencement of implementation a <i>Work and movement of vessels during construction instruction book</i> must be prepared, which requires to be approved by the Director of RZGW in Wrocław and the Director of the Office of Inland Navigation in Wrocław, e) marking of the construction area and of the waterway informing about occurring hazards and limitations in waterway navigation traffic should be performed. The method of marking and 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of Contractor's documentation regarding communication service on the Task implementation area.</p> <p>Inspection of the progress of obtaining the agreements in question.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		the place of foundation should be agreed with the Director of the Office of Inland Navigation in Wrocław.				
23.	Land area and landscape protection/ Noise protection	<p>Reduction of dusting and noise while transporting materials</p> <p>While transporting building materials by water or by land, following conditions should be met:</p> <ul style="list-style-type: none"> a) it is necessary to apply required organizational and technical measures in order to maintain access roads to construction backyards in cleanliness, b) while transporting materials, it is required to drive with proper speed in the built-up areas, c) it is necessary to apply required organizational and technical measures in order to reduce noise, d) and protect the load with proper covering to reduce the possibility of causing burdens to inhabitants (such as dusting). 	Task implementation area	Visual monitoring, photographic documentation. Verification of Contractor's documentation regarding communication service on the Task implementation area.	On an ongoing basis during the Task implementation period, at least once a week..	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
24.	Protection of human health and safety	<p>Keeping allowable total load capacity of means of transport</p> <p>During transport of building materials and construction works with technology using access from water, it is necessary to observe total load capacity of vehicles and barges and other floating equipment.</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of Contractor's documentation regarding communication service on the Task implementation area.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
25.	Land area and landscape protection	Reduction in the use of heavy equipment during construction works Introduction of the heavy equipment should be limited to the necessary minimum.	Task implementation area	Visual monitoring, photographic documentation. Verification of Contractor's documentation regarding communication service on the Task implementation area.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
05 - ORGANIZATION OF CONSTRUCTION AREA, CONSTRUCTION BACKYARDS, WAREHOUSES AND STORAGE SITES						
26.	Land area and landscape protection	Proper organization of works The Task implementation area should be kept clean and proper organization of works should be provided.	Task implementation area	Visual monitoring, photographic documentation. Contractor's documentation regarding arrangement of the construction sites.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
27.	Land area and landscape protection	Equipping sites of potential contamination with sorbents Temporary occupation sites such as technological roads, construction backyards, storage sites for construction material, parking must be equipped with sorbents for liquidating possible leakages and spillages of petroleum substances.	Task implementation area	Visual monitoring, photographic documentation, Verification of Contractor's documentation regarding arrangement of the construction sites and backyards, equipment depots and temporary technological roads, parkings, and similar areas used during the Task implementation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Verification of documentation handed over from the Contractor to the Engineer.	period, at least once a month.	
28.	Protection of human health and safety	Location of construction backyards Construction backyards must be situated as far from residential development areas as possible.	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation regarding placement of the construction backyards.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
06 - REQUIREMENTS CONCERNING WASTE MANAGEMENT						
29.	Protection of human health and safety	<p>Principles of hazardous waste management</p> <p>If hazardous substances and materials are stored in the building site, they must be protected appropriately, preventing the access of unauthorized persons, and information on a hazard must be provided on warning boards.</p> <p>Hazardous waste shall be segregated and stored separately in designated airtight containers set on hardened ground, secured against unauthorised access until handed over to entities authorised to manage such waste further.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
30.	General waste handling	<p>General principles of waste management</p> <p>Waste management should be carried out according to the following requirements:</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>a) Production of waste generated during the implementation of the Task shall be reduced to the minimum to prevent negative impact on the environment.</p> <p>b) Waste shall be segregated and selectively stored in airtight containers or in designated and suitable locations in conditions that prevent dust emission and prevent the wind picking up light fractions resulting in a negative environmental impact.</p> <p>c) Regular waste collection shall also be ensured by entities authorised to manage the waste further.</p> <p>d) Ship waste containing oil derivatives and lubricating greases, load waste produced on board and other floating equipment, sewage and waste water shall be collected within the area of floating units in such a way to protect the environment against contamination.</p> <p>e) Ship waste shall be handed over to ship waste collectors located within ports in Nowa Sól, Cigacice and Krosno Odrzańskie</p> <p>Waste management shall be carried out according to requirements of the Waste act of 14 December 2012, Inland Navigation Law of 21 December 2000 and Waste Management Plan as referred to in item 71 of App. 1 of EMP.</p>				

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
31.	General waste handling	<p>Designating places for waste deposit and storage</p> <p>The Contractor, in agreement with the Engineer, will designate places for depositing and storing waste. However, areas located in the Odra river inter-embankment zone cannot be selected for this purpose.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
32.	General waste handling	<p>Management of waste produced by workers</p> <p>Waste produced by the workers shall be collected in specially marked containers and bags, the content of which shall be handed over to entities with appropriate permits to utilize it. Particular attention should be paid to the successive accumulation of waste generated by the employees in the immediate vicinity of the riverbed in order to avoid its pollution.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
33.	General rules for domestic waste-water management	<p>Maintaining proper hygienic conditions in the construction sites</p> <p>It is necessary to equip the Task implementation area with a required number of portable toilets and provide workers with training about maintaining proper hygienic conditions of the construction sites and surrounding. The Contractor's workers shall not relieve themselves outdoors but only in the places designated for this purpose.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
34.	General rules for domestic waste-water management	<p>Principles of domestic waste-water management</p> <p>In case of lack of possibility to discharge domestic waste-water to the nearest sewage system, the waste shall be collected in tights, septic containers and regular disposal by entities with appropriate permits shall be provided.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
07 - REQUIREMENTS CONCERNING POSSIBLE FELLING OF TREES AND PROTECTION OF TREES AND SHRUBS						
35.	General principles of protection of the biotic natural resource	<p>Reduction in trees and shrubs felling</p> <p>Possible felling of trees and shrubs must be limited to an absolute minimum only to the sites for which the conditions of such felling were included in administrative decisions due to their occurrence in the place of earthworks and construction works.</p> <p>The Contractor is obliged to obtain administrative decisions concerning felling of trees and shrubs required for the Task implementation. The Contractor also meets all of the conditions resulting from the issued administrative decisions. In the case of overlap of thematic ranges contained in the issued administrative decisions regarding the felling of trees and shrubs with the conditions included in the EMP, the Contractor shall apply stricter rules related to environmental protection.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation regarding the felling of trees and shrubs.</p> <p>Inspection of progress of works on obtaining of the decisions and arrangements in question.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
36.	General principles of protection of the biotic natural resource	<p>Protection of trees in the Task implementation area</p> <p>In order to protect existing trees growing in the vicinity of the Task implementation and at risk of being damaged due to vehicle traffic, equipment handling, it is recommended:</p> <p>a) to secure trunks of the trees growing nearby against damage, e.g. by putting coverings made of wooden strips around the trunks up to the minimum height of 1.5 m,</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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		<p>b) to carry out earth works manually if near to the root system of the trees,</p> <p>c) to cover the trunks to protect them against drying (summer) or freezing (winter) with the use of straw, sandbag materials or peat, to protect the soil under the trees from storing building site back-up materials and excavated soil as it stops the exchange of gases between air and ground and may lead to dying or rotting of the roots.</p>				
37.	General principles of protection of the biotic natural resource	<p>Preservation of damaged trees</p> <p>In case of damaging trees, the Contractor is obliged under supervision of phytosociologist/botanist to take care of maintenance of the damaged trees and introduce treatment limiting the adverse effects.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation of the required experts.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Verification of the participation of the required experts.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
38.	General principles of protection of the biotic natural resource	<p>Assessment of potential occurrence of beetle species before tree felling</p> <p>In the planned tree felling sites, it is necessary to:</p> <ul style="list-style-type: none"> a) prior to the felling of trees of circumference exceeding 100 cm (measured at the height of 1,3m) an expert entomologist should inspect individual tree specimens for the purpose of assessing if protected species of beetles are present at the site, b) secure and/or relocate the species to a different habitat of similar conditions if trees occupied by beetles are found, c) prior to the execution of abovementioned activities Contractor 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation and arrangements of the required experts.</p>	<p>On an ongoing basis during the Task implementation period, at least once a week.</p> <p>On an ongoing basis during the Task implementation period, at least once a month.</p>	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Verification of the participation of the required experts.</p>	<p>On an ongoing basis during the Task implementation period, at least once a week.</p>	

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>shall obtain a legally required administrative decision for derogation from prohibitions regarding protected animal species created on the basis of the Act of 16 April 2004 on the Nature Conservation,</p> <p>d) works detailed in subsection b) shall be carried out under the supervision of an expert entomologist and in accordance with applicable conditions contained in administrative decision pursuant to the Act of 16 April 2004 on the Nature Conservation,</p> <p>e) the Contractor shall prepare relevant reports on the course and the scope of undertaken activities which were authorised to derogate from prohibitions regarding protected animal species.</p>				
39.	General principles of protection of the biotic natural resource	<p><i>Assessment of potential occurrence of bats before tree felling</i></p> <p>In order to reduce losses in the species of protected bats which may live in tree hollows, it is necessary to:</p> <p>a) prior to the felling of trees of circumference exceeding 100 cm (measured at the height of 1,3m) an</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation and arrangements of the required experts.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>expert chiropterologist should inspect individual tree specimens for the purpose of assessing if protected species of bats are present at the site,</p> <p>b) should any presence of protected bat species be confirmed in trees to be felled, Contractor shall obtain a legally required administrative decision for derogation from prohibitions regarding protected animal species created on the basis of the Act of 16 April 2004 on the Nature Conservation prior to the tree felling,</p> <p>c) further works shall be carried out under the supervision of an expert chiropterologist and in accordance with applicable conditions contained in administrative decisions pursuant to the Act of 16 April 2004 on the Nature Conservation,</p> <p>d) the Contractor shall prepare relevant reports on the course and the scope of undertaken activities which were authorised to derogate from prohibitions regarding protected animal species.</p>				
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Verification of the participation of the required experts.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>
40.	General principles of protection of the biotic natural resource	<p>Dates for tree felling</p> <p>Trees and bushes felling within the scope indispensable for the Task implementation must be carried out beyond the breeding season of birds (from 16 October to the end of February).</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of works schedules.</p>	<p>On an ongoing basis during the Task implementation period, at least once a week.</p>	<p>Contractor's team</p>

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				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
41.	General principles of protection of the biotic natural resource	Protection of area below the tree crowns Places for storage of building materials, earth mass, for parking of vehicles and building equipment should be located beyond vertical projection of crowns of trees which are not intended for felling. The construction backyards will be located in the port areas of Cigacice, Nowa Sól and Krosno Odrzańskie.	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation regarding organisation of construction sites and backyards.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
42.	General principles of protection of the biotic natural resource	Protection of vegetation growing beyond the border of Task implementation area During construction works it is prohibited to damage vegetation situated beyond the borders of Task implementation area.	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation regarding organisation of construction sites.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
43.	General principles of protection of the biotic natural resource	<p>Preservation of natural habitats and habitats of protected species in the inter-groyne areas</p> <p>During construction works connected with rebuilding of groynes and outside the area of direct interference, it is required to preserve diversity of natural habitats and habitats of protected species within the riverbed such as boulders or stones from eroded groynes, wooden logs, sandy patches and other similar elements.</p>	Task implementation area	<p>Visual monitoring, photographic documentation. Verification of documentation regarding organisation of construction sites.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
08 - REQUIREMENTS CONCERNING PREVENTION OF ENVIRONMENTAL POLLUTION						
44.	Land area and landscape protection / General principles of protection of the biotic natural resource	<p>Carrying out works with the use of floating equipment</p> <p>Planned works connected with reconstructions of groynes and riffle removal within the riverbed will be carried out with the use of floating equipment (such as barges, pontoons, pusher crafts).</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Verification of documentation regarding organisation of construction sites.		
45.	Protection of soil, surface waters	<p>Prevention of leakage and soil, ground and water contamination.</p> <p>In order to prevent soil, ground and water contamination during construction works or while organising the Task implementation area, it is necessary to:</p> <ul style="list-style-type: none"> a) avoid the leakage or spillage and seal potentially endangered surface such as containers or designated sites where machine unloading and filling up the fuel take place; b) introduce the proper measures and procedures of collecting and storing hazardous substances such as oil derivatives in strictly set quantities; 	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor' team
				Verification of documentation handed over from the Contractor to the Engineer.		
				Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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		c) store materials and equipment in designated sites, properly secured against polluting surface and ground waters.				
46.	Protection of soil, surface waters	Rules governing refuelling of machinery Refuelling of machinery and vehicles shall only take place in designated areas. It is necessary to follow the instructions while filling up the fuel.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
47.	Protection of soil, surface waters	Maintaining proper technical conditions of equipment Equipment used during construction works must fulfil the following conditions: <ul style="list-style-type: none"> a) be fully operational and meet the requirements for its use, b) the type and technical condition of the equipment used during construction must ensure protection of land, surface waters and groundwater against contamination, as well as protection against noise emission to the environment; the technical condition of construction and transportation machinery shall be 	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		monitored to eliminate leaks of carbohydrate petroleum derivatives into the ground, near the vessels and into the water.				
48.	Protection of soil, surface waters	Current control land repairs of equipment Appropriately to demand one shall provide necessary repairs and maintenance for the operated machinery (to prohibit any leakage in hydraulic and fuel systems).	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
49.	Protection of soil, surface waters and air protection	Supervision over operation of the motor vehicles The Contractor's team must exercise proper supervision over operation of the motor vehicles of the ground transport as well as of the vessels deployed for the Task Implementation.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
50.	Protection of soil, surface waters and air protection Noise protection	The use of equipment that ensures the protection of sanitary condition of the air The equipment used and construction machinery must meet the following conditions	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>for the protection of sanitary condition of the air:</p> <ul style="list-style-type: none"> a) construction machinery should have modern drive units with limited emission of combustion gases. b) the level of pollution emitted by ground vehicles and vessels cannot exceed the European standards contained in Directive EURO IV (98/69/EC & 2002/80/EC) as well as in the Directive EURO V (2007/715/EC[13]), c) the type and technical condition of the equipment used during construction must ensure protection against exceeding the permissible values for dust and gaseous substances emission into the atmosphere. 		Verification of documentation handed over from the Contractor to the Engineer.		
51.	Protection of soil, surface waters and air protection	<p><i>The use of materials which are the least harmful to the environment</i></p> <p>During the Task implementation materials which are the least harmful to the vegetation and the soil and water environment shall be used.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
52.	Protection of soil, surface waters and air protection	<i>Proper storage of materials and equipment</i>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		Building materials and equipment should be stored in designated areas, adequately protected against contamination of the soil and water environment.		Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
53.	Protection of soil, surface waters	<p>Protection of the Inter-embankment of the Odra river against pollution</p> <p>Storage of any waste related to repairs and maintenance of equipment, machinery and devices used in construction works is not permitted in the inter-embankment of the Odra River. All machine repairs and service should be carried out by specialized companies or individuals authorized by the manufacturer (authorized service). Waste generated during this type of work (such as damaged parts, gaskets, filters, emptied grease and liquid containers, used oils and liquids, etc.) will be collected by repairers or service providers and will not be stored on site. It should then be managed in accordance with the regulations and included in the Waste Management Plan as referred to in item 71 of the App. 1 of the EMP.</p>	Task implementation area	Visual monitoring, photographic documentation	On an ongoing basis during the Task implementation period, at least once a week	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
54.	Air protection	<p>Reduction of exhaust fumes from machinery and vehicles</p> <p>It is necessary to seek reduction of the work time for internal-combustion engines of machinery and the vehicles. Prolonged work of internal-combustion engines of construction machines and vehicles should not be allowed during stoppage (limit emission in so-called idle phase).</p>	Construction site facilities (ports in: Cigacice, Nowa Sól, Krosno Odrzańskie)	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
55.	Air protection (against dusting)	<p>Reduction in dusting of vehicles</p> <p>Dusting caused by vehicles should be limited, inter alia, by:</p> <ul style="list-style-type: none"> a) cleaning vehicle wheels before entering public roads, b) cleaning inner surfaces of technological roads, c) using airtight tarpaulin on vehicles carrying materials that produce dust, or transporting bulk materials in containers, d) using airtight tarpaulin on vessels carrying materials that produce dust, or transporting bulk materials in containers, e) other actions preventing contamination of local roads by the sand and mud carried by vehicles, f) sparking inner surfaces of technological roads. 	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
56.	Protection of water and soil	<p>Providing designated places for parking of machinery and vehicles</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		Equipment, machinery and vehicles used for the construction work must have designated parking spots, which shall be protected against any penetration of petroleum derivatives into the soil and water environment. During the periods that the equipment, machinery and vehicles are not used, they should be present in the designated areas.		Verification of documentation regarding organisation of the construction backyards.		
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
57.	Protection of water and soil	<p>Prevention and action concerning penetration of pollution into the ground and water environment</p> <p>The Task shall be designed and implemented in a manner excluding penetration of any pollutions, especially petroleum derivatives to the ground and water environment. In the case of possible leakage of petroleum derivatives the following rules of conduct shall be adhered:</p> <ul style="list-style-type: none"> a) the leak shall be immediately removed and polluted soil layers shall be immediately removed and managed in accordance with binding regulations. b) areas affected by the leakage of petroleum derivatives shall be restored to the condition preceding structure implementation (land reclamation). c) in the event of leakage into the water, ensure immediate constraint of the contamination spread and mechanically collect the petroleum derivatives from the surface of the water. 	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
09 – GUIDELINES CONCERNING REDCUION OF BURDEN TO THE EVIRONMENT BY THE USE OF PROPER MATERIALS						
58.	Protection of water and soil	The use of materials harmless for the environment For groynes reconstruction only the natural materials shall be used, such as stone and fascine.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team
59.	General principles of protection of the biotic natural resource	Rules concerning obtaining of fascine Materials, including in particular fascines, for the purpose of the Task implementation shall be obtained from areas not protected under Natura 2000 network.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
10– REQUIREMENTS CONCERNING NOISE PROTECTION OF ADJACENT AREAS TO CONSTRUCTION SITES						
60.	Noise protection	Reduction of working hours to daytime In order to limit nuisance generated by the noise, the construction works shall be conducted during daytime (6:00 a.m. – 10:00 p.m.).	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team
61.	Noise protection	Noise reduction by the use of proper technologies and good work organization Technologies that cause least acoustic nuisance during construction work shall be applied, as well as, a good work organization, correct equipment operation and its technical maintenance.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team ;

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
11 – REQUIREMENTS CONCERNING LAND RECLAMATION OF TEMPORARY OCCUPATION SITES						
62.	Land area and landscape protection	<p>Land reclamation upon completion of construction works</p> <p>In the event of deformation of the ground surface by imposed earthwork and operation of heavy equipment, these areas shall be restored to the condition preceding structure implementation (land reclamation). Upon completion of all construction works, it is necessary to recover temporary occupation sites to their previous condition (restored to its original form). After the task has been implemented, the site shall be reinstated as it was originally, maintaining the most natural character of that zone. Works connected with land reclamation of temporary occupation sites shall be carried out with the participation of botanist/phytosociologist from the Contractor's environmental team.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
63.	Land area and landscape protection	<p>Implementing actions concerning the collection of humus layer and land reclamation of temporary occupation site.</p> <p>In order to protect humus in the Task implementation area:</p> <ul style="list-style-type: none"> a) if carrying out of the construction work is necessary in places with a fertile soil layer - humus, before the commencement of works, a layer of humus should be collected with a thickness of not less than 0.2 m; b) works related to the stripping of humus should be carried out in the period from the beginning of September to the end of February; c) detailed location of humus heaps should be agreed in advance with the environment expert board referred to in item 81 of the Appendix 1 of the EMP (including a phytosociology expert) so that storage of topsoil does not result in degradation of natural habitats and natural conservation sites for protected species; d) after completion of construction works, stored humus should be used to restore the layer of fertile soil; 	Task implementation area	Visual monitoring, photographic documentation. Verification of works schedules. Verification of documentation regarding reclamation. Verification of the participation and arrangements of the required experts.	Constantly during the Task implementation period with reporting once a month.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>e) works connected with land reclamation of temporary occupation sites shall be carried out with the participation of botanist/phytosociologist from the Contractor’s environmental team.</p> <p>The actions related to humus recovery and land reclamation of greenery shall be taken as soon as its implementation is possible.</p>		<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Verification of arrangements provided by the required experts.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer’s team</p>

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
12 – REQUIREMENTS CONCERNING PROTECTION OF CULTURAL MONUMENTS						
64.	Protection of archeological values	<p>Actions taken in registered archeological sites</p> <p>During the Task implementation, the Contractor shall provide the participation of archeological team of experts (archeological supervision).</p> <p>The participation of the archeological team will ensure the protection and the removal of valuable objects and other elements of historical value from the working site and will enable the performance of specific works.</p> <p>Dependent upon actual needs, the team of expert archaeologists may consist of one or more persons having appropriate industry qualifications. The composition of the team of expert archaeologists is subject to the Engineer’s approval. Prior to the commencement of the works, the Contractor shall submit to the Engineer’ approval a <i>Quality Assurance Plan</i> defining the scope of activities of expert archaeologists’ team.</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Inspection of the progress of works on the <i>Quality Assurance Plan</i> within the framework of action of archaeological team of experts and its compliance with the requirements of the EMP.</p> <p>Verification of the participation and arrangements of the required experts.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of following the required procedures.</p> <p>Verification of the participation of the required experts.</p>	On an ongoing basis during the Task implementation period, at least once a month.	
65.	General provisions concerning cultural heritage and the monuments conservation	<p>Actions taken in the case of finding of artefacts or archeological sites</p> <p>If, during the works, Contractor’s team finds an object for which it is reasonable to suppose or be</p>	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		certain that it may be an artefact or have a historical value, the Contractor is: obliged to stop immediately all the works which may damage and destroy the find, secure the object and the site where it was found (using available means), immediately notify the relevant heritage conservator's, and if it's not possible an appropriate local head of commune (Voyt or Mayor). Contractor simultaneously shall notify the Engineer about the abovementioned.		over from the Contractor to the Engineer. Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer. Verification of participation of required experts.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
66.	General provisions concerning cultural heritage and the monuments conservation	Obtaining permit issued by the relevant heritage conservator's For the purpose of implementing provisions mentioned in items 64 and 65 of the EMP connected with the protection of cultural heritage sites and historic monuments, the Contractor, if necessary, will also obtain a permit issued by the relevant heritage conservator's to carry out archeological rescue explorations.	Task implementation area	Check on the progress of works regarding obtaining the permit in question. Verification of handing over of the documents to the Engineer. Verification of meeting the arrangements provided for in the permit.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
13 – REQUIREMENTS CONCERNING PROTECTION OF HUMAN HEALTH AND SAFETY						
67.	Protection of human health and safety	Proper storage of building materials Materials used in construction works should be stored in the manner securing them against damage and in the manner not posing a risk to the human and property.	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
68.	Protection of human health and safety	Providing proper communication devices Workers shall be provided with the voice communication devices (walkie-talkies or other means of wireless communication).	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
69.	Protection of human health and safety	<p>Providing safety during operation of machinery, construction equipment and other devices</p> <p>Operation of machinery, construction equipment and other devices should be carried out in the manner not posing a risk to the human and property safety, excluding falling over, sliding down or falling down of machinery and equipment.</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer.	Constantly during the Task implementation period with reporting once a month.	Contractor's team
				Visual monitoring, photographic documentation. Verification of documentation handed over from the Contractor to the Engineer	Constantly during the Task implementation period.	Engineer's team
70.	Protection of human health and safety	<p>Providing workers with safety and health protection plan (SHP)</p> <p>The Contractor is obliged to prepare safety and health protection plan (SHP), to obtain the Engineer's approval for its content and should comply with its recommendations until the completion of the Task.</p> <p>While drafting safety and health protection plan (SHP), the Contractor should pay special attention to perform works in a safe manner when using the floating equipment, when</p>	Task implementation area	Visual monitoring, photographic documentation. Verification of the progress of works on drafting of the document in question. Verification of handing over of the document to the Engineer.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>construction works take place in the close vicinity of flowing waters and when the adverse weather conditions in autumn-winter seasons occur (all provisions concerning performing works should be described in great detail and workers should be provided with proper personal protective equipment and clothing).</p> <p>The fire safety requirements in the SHP should also include a ban on igniting fires and incinerating flammable materials within the construction site.</p>		<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>
71.	Drafting required plans concerning crisis situations management	Required documents concerning crisis and environment management drafted by the Contractor:	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the progress of works on drafting of the documents in question.</p> <p>Verification of handing over of the document to the Engineer in proper time.</p>	<p>On an ongoing basis during the Task implementation period, at least once a week.</p>	<p>Contractor's team</p>
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>Direct and random controls to check if the</p>	<p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Engineer's team</p>

		<p>a) Within 42 days since commencing works, the Contractor shall prepare and submit for the Engineer’s approval a <i>Waste Management Plan</i>, specifying management method for the waste generated during works, considering, inter alia, guidelines within the waste management items contained in the EMP;</p> <p>b) Contractor shall prepare and submit to the Engineer for approval, and then execute a <i>Construction Site Flood Protection Plan</i> which will take local hydrological and meteorological conditions in the Task implementation area into consideration. In case of flood, the Contractor shall follow the procedures included in the abovementioned document;</p> <p>c) the Contractor shall prepare and submit for the Engineer’s approval <i>A construction site organization design</i>, which should include i.a. the following elements: backyard location, backyard management, backyard protection, access roads, environmental protection in the backyard;</p> <p>d) Contractor is obliged to draw up and execute a <i>Quality Assurance Plan</i> submitted to the Engineer for approval which should include i.a. the following elements: organization of works execution, organization of traffic at the construction site and the marking of works, Safety and Health</p>		<p>Contractor respects procedures included in documents.</p>		
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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>Protection and the environmental protection, list of working teams, the responsibilities of key personnel, quality control, laboratory research;</p> <p>e) <i>ESHS Management Strategy and Implementation Plans</i> (management strategies and implementation plans for Environmental, Social, Health and Safety hazards), <i>ESHS Code of Conduct</i> - submitting for the approval of the Contract Engineer, prior to commencement of work, <i>ESHS Code of Conduct</i> and <i>ESHS Management Strategy and Implementation Plans</i> as described in the Bidding Documentation, part ItB 11.1 (h) developed at the stage of submitting a bid and periodic revision of the said documents as the result of the recommendations of the Contract Engineer.</p>				
72.	Protection of human health and safety	<p><i>Obligation to identify and mark danger zones</i></p> <p>Danger zones, posing a threat to the health and life of people shall be identified and marked with warning signs, preventing any unauthorized entry into their limits.</p>	Task implementation area	Visual monitoring, photographic documentation	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
73.	Protection of human health and safety	<p>Obligation to ensure health and safety of people during construction works</p> <p>The Contractor shall ensure and maintain human safety during the conduction of the works.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
74.	Protection of human health and safety	<p>Obligation of proper security and marking of the Task implementation area</p> <p>The Contractor is obliged to secure and provide permanent marking of the building site. Occupational Health and Safety (OHS) Supervisors of the Contractor shall be responsible for providing a proper marking of the construction site in accordance with applicable law. This marking will be checked regularly, in the event of destruction or theft of the signs, the Contractor shall immediately recondition or replenish them.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
75.	Protection of human health and safety	<p>Obligation to ensure proper visibility conditions</p> <p>In case of carrying out works after dusk or in conditions of limited visibility, the Contractor is obliged to ensure the proper lighting of the construction site with appropriate adjustment of light intensity.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		The Contractor shall ensure constant visibility conditions during the day and at night of such barriers and signs for which it is obligatory for safety reasons.		Verification of documentation handed over from the Contractor to the Engineer.		
76	Protection of human health and safety	<p>Principles concerning HIV-AIDS prevention (Contract Bidding Documents - General Terms, Clause 6.7)</p> <p>HIV-AIDS prevention. The Contractor shall implement an awareness raising training and programme on spreading HIV-AIDS disease through an approved service supplier and shall take all other measures outlined in the Agreement (General Terms, Clause 6.7) in order to reduce a risk of HIV transfer among the Contractor's personnel and local population and to promote early diagnostics and support for infected people. These actions shall be carried out throughout the entire duration of the Contract (as well as during defects and faults submission period) at least every second month. These shall include informational, educational and awareness-raising campaigns concerning the dangers of spreading HIV-AIDS.</p>	Task implementation area	<p>Verification of compliance of the Contractor's activities with the appropriate terms in the Contract.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week.</p> <p>On an ongoing basis during the Task implementation period, at least once a month.</p>	<p>Contractor's team</p> <p>Engineer's team</p>

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
77.	Protection of human health and safety	<p>Actions taken in case of finding unexploded ordnance</p> <p>In the event that unexploded ordnance is found, the Contractor shall:</p> <ul style="list-style-type: none"> a) immediately stop the works, b) evacuate workers, c) immediately notify police and a licensed explosive ordnance disposal unit, and follow their recommendations, d) notify the Engineer and the Employer, e) in no case shall unexploded ordnance be picked up, excavated, buried, carried or thrown into the fire or water, etc. 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>On-going inspections of fulfilling current procedures.</p> <p>Verification of handing over the documents to the Engineer.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a week, and each time a condition covered by the provision occurs.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works), at least once a month, and each time a condition covered by the provision occurs.	Engineer's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
78.	Protection of human health and safety	<p>Ensuring an explosive ordnance disposal team</p> <p>In order to reduce the risk of encountering explosive remnants of war , the Contractor is obliged to:</p> <ul style="list-style-type: none"> a) ensure explosive ordnance disposal team during the earthwork (the Contractor's sapper's supervision) which consists in conducting ongoing inspections and clearing the area of dangerous items of military origin and their disposal; b) comply with the procedures included in item 77 of the App. 1 of the EMP if such dangerous remnants of war are found. 	Task implementation area	<p>Visual monitoring, photographic documentation.</p> <p>Verification of the participation and arrangements of the required experts.</p> <p>Verification of handing over the document to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a week, and each time a condition covered by the provision occurs.	Contractor's team
				<p>Visual monitoring, photographic documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
14 – REQUIREMENTS CONCERNING STAFF EMPLOYED BY THE CONTRACTOR IN THE TASK IMPLEMENTATION						
79.	Implementation of EMP	<p>Tasks of the team of environmental experts</p> <p>Tasks of the team of environmental experts should include:</p> <ul style="list-style-type: none"> a) performing one-time field inventory according to rules provided in item 5 of the Appendix 1 of the EMP; b) supervision over introduction of mitigation measures concerning nature protection; c) inventory of area affected by the construction and hydrotechnical works, prior to their commencement and during the implementation; d) recommendations, if needed, for introducing mitigation measures, essential for limiting the adverse effects of the Task on natural habitats as well as species and habitats that are of interest for the Community and those subject to legal protection (protected species) and are not possible to be predicted and/or were not possible to reveal at the stage of establishing the conditions for the implementation of the Task (during the process of issuing an Environmental Decision), formulation of protection guidelines during the Task implementation, e) if needed get requisite permissions for departures from bans concerning protected species of plants, fungi and animals under conditions and procedure specified in the Act of 	Task implementation area	<p>Contractor’s confirmation on performed operations in the monthly report on the Implementation of the Contract, supported by protocols from the stock-taking, reports from environmental surveillance experts, etc.</p> <p>Check on the presence of a required person in the Contractor's team.</p>	On an ongoing basis during the Task implementation period, at least once a week, and each time a condition covered by the provision occurs.	Contractor’s team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>On-going inspections of fulfilling current obligations by the environmental surveillance experts within Contractor's personnel.</p> <p>Verification of participation of required experts.</p> <p>On-going inspections of fulfilling current obligations by the experts within Contractor’s personnel.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>April 16th, 2004 on nature conservation,</p> <p>g) formulation of protective indications during the Task implementation,</p> <p>h) if needed get requisite permissions for departures from bans concerning protected species of plants, fungi and animals under conditions and procedure specified in the Environmental Protection Act of 16 April 2004.</p>				
80.	Implementation of EMP	<p>Requirements concerning the team of environmental experts</p> <p>Throughout the Task implementation period, the Contractor shall ensure permanent participation of a team of environmental experts:</p> <p>a) The Contractor's team of environmental experts shall include the following experts: phytosociologist/botanist, entomologist, ichthyologist,</p>	Task implementation area	<p>Contractor's confirmation on performed operations in the monthly report on the Implementation of the Contract, supported by protocols from the stock-taking, reports from environmental surveillance experts, etc.</p> <p>Check on the presence of a required person in the Contractor's team.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>herpetologist, ornithologist, mammologist, chiropterologist,</p> <p>b) all experts in the Contractor’s environmental team shall provide documentary evidence in their experience as well as education in the field of environmental studies,</p> <p>c) team of environmental experts must be accepted by the Engineer prior to the commencement of works. .</p> <p>These experts will be engaged in introducing some measures included in the EMP, in particular:</p> <p>a) mitigation measures included in the Appendix 1 of the EMP in items: 5,6,7,8,9,10,11,12,, 15, 16, 35, 36, 37, 38, 39, 40, 41, 42, 43,79,81;</p> <p>b) monitoring measures included in App. 2 of the EMP in item 85.</p>		<p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>On-going inspections of fulfilling current obligations by the environmental surveillance experts within Contractor's personnel.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team
81.	Implementation of EMP	<p>Training of Contractor’s staff in regard to the EMP implementation</p> <p>The Contractor is responsible for providing a training (concluded by a knowledge check for the participants) on the principles and conditions of the EMP and the protection guidelines during the Task implementation. Training and tests shall be conducted with the support of the Contractor’s environmental team for the management staff and technical engineers supervising the construction. Contractor’s employees, who will deal with fuels and other petroleum-derived substances, should be trained on the principles of protection of the ground and water environment and the</p>	Task implementation area	<p>Checking if all persons working currently within the Contract have undergone the training and communicating the findings to the Site Manager.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor’s team
				<p>Verification of information concerning training of the Contractor’s staff that was handed over to the Engineer along with the Contractor's monthly reports.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer’s team

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		<p>deployment of protection measures, including the use of sorbents.</p> <p>In monthly reports submitted to the Engineer, the Contractor shall provide information on its personnel's training level in the scope of EMP provisions in the current reporting period.</p>		<p>Random on-the-spot checks of understanding of the EMP provisions by the staff working currently within the Contract for the Contractor.</p>		
82.	Implementation and reporting of EMP	<p>Appointment of EMP co-ordinator in the Contractor's staff</p> <p>A person in charge of co-ordination and supervision of activities related to EMP implementation shall be appointed in the Contractor's staff.</p> <p>This person shall be responsible, among others, for:</p> <ul style="list-style-type: none"> a) supervision over implementation of individual EMP conditions during various stages of Task implementation; b) regular monitoring of the implementation of individual conditions contained in App. 1 and 2 to the EMP in the <i>Task implementation area</i>; c) regular informing the Contractor's team management about duties stemming from the EMP at a given stage of works, as well as about any problems occurring in the scope of EMP implementation; d) collaboration with Contractor's remaining team members (including the team of environmental experts, team of archaeological experts and explosive ordnance disposal team,) in the scope of ensuring EMP implementation; 	Task implementation area	<p>Check on the presence of a required person in the Contractor's team.</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team

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		<p>e) reporting on EMP implementation;</p> <p>f) collaboration with persons in charge of EMP implementation in the Engineer's team and the Contractor's team.</p> <p>The person appointed to perform the above-mentioned functions is subject to Engineer's approval.</p>				
83.	Implementation of EMP	<p>Reports from environmental team experts</p> <p>Environmental team experts shall conduct reporting that covers:</p> <p>a) reports (monthly , quarterly and final) on the implementation of the conditions specified in the EMP;</p> <p>b) drafting a monthly written reports - in the form of a checklist along with the necessary Appendixes, including reports on the implementation of environmental supervision;</p> <p>c) reports shall be submitted to the Engineer for their approval.</p>	Task implementation area	<p>Inspection of progress of preparation and handing over the required reports and information to the Engineer. Inspection of the documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer.</p>	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
84.	Meetings concerning the implementation of mitigation and monitoring measures	<p>EMP implementation discussion during working meetings and Site Meetings</p> <p>During the Task implementation period, monthly meetings of PIU representatives, the Engineer and the Contractor shall take place, which will be dedicated to discussion and control of the implementation of the mitigation and monitoring measures specified in the EMP.</p> <p>Irrespective of the foregoing, current requirements and problems related to the EMP</p>	Task implementation area	<p>Verification of carrying out the meetings in question, as well as, of discussing issues related to the implementation of EMP during Site Meetings.</p> <p>Communicating the findings to the Site Manager.</p>	On an ongoing basis during the Task implementation period, at least once a week.	Contractor's team

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		implementation shall be discussed during Site Meetings.		Verification of carrying out the meetings in question, as well as, of discussing issues related to the implementation of EMP during Site Meetings. Communicating the findings to the Site Manager. Verification of documentation handed over from the Contractor to the Engineer.	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
85.	General principles of protection of the biotic natural resource	<p>Protection of ichthyofauna from increased concentration of suspended solids in the Odra River</p> <p>In order to prevent the ichthyofauna from increased concentration of suspended solids in the Odra River, works shall be carried out in accordance with the following principles:</p> <p>a) in case of recording concentration of suspended solids above level of 200 mg/l (in monitoring points located cca. 500 m below the construction sites) intensity of works shall be reduced (introduce a 2-hour recess after every 2 hours of work) and if concentration of suspended solids reaches above the level of 400 mg/l work shall be stopped for a period of 24 h,</p> <p>b) resumption of works after every break caused by an exceed of concentrations must be preceded by another</p>	Task implementation area	<p>Visual monitoring. Inspection of carrying out monitoring of concentration of suspended solids. Inspection of the documentation handed over from the Contractor to the Engineer.</p> <p>Visual monitoring. Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>On an ongoing basis during the Task implementation period (during works connected with the rebuilding of groynes and removal of riffle from the bottom), at least once per day.</p> <p>On an ongoing basis during the Task implementation period, at least once a month.</p>	

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
		measurement of concentration of suspended solids in monitoring point, works can be continued only if concentration of suspended solids in monitoring point is below the level of 200 mg/l.				
15- REQUIREMENTS CONCERNING CONDUCTING ENVIRONMENTAL MONITORING						
86.	Protection of the biotic natural resource	<p>Conducting environmental monitoring during the works</p> <p>Environmental monitoring should be carried out under the supervision of environmental team, appointed by the Contractor for the duration of the entire project, which shall involve a supervision of the implementation of construction and hydrotechnical works related to the reconstruction of Odra river regulatory infrastructure.</p>	Task implementation area	Contractor's confirmation on performed operations in the monthly report on the Implementation of the Contract, supported by protocols from the stock-taking, reports from environmental surveillance experts, etc.	Constantly during the Task implementation period with reporting once a month.	Contractor's team
				<p>Inspection of handing over of the documentation to the Engineer..</p> <p>Verification of documentation handed over from the Contractor to the Engineer.</p> <p>On-going inspections of fulfilling current obligations by the environmental surveillance experts within Contractor's personnel.</p>		

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Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
87.	Protection of the biotic natural resource	<p>Monitoring of concentration of suspended solids in the Odra River</p> <p>Monitoring of concentration of suspended solids shall be carried out daily for the waters of the Odra River during the construction works period in the distance of cca. 500m below the construction sites connected with the rebuilding of groynes and removal of riffle from the bottom.</p> <p>Concentration measurement shall be carried out after at least two hours of construction works (with their normal intensity).</p> <p>In an instance when the concentration exceeds the level of 200 mg/l the measurement shall be repeated after a 2 hour recess in the works.</p> <p>The oxygen concentration should be measured at the central part of the head of water - about 1.0 m below the surface.</p>	Task implementation area	Visual monitoring, photographic documentation	On an ongoing basis during the Task implementation period, at least once a day during contraction works.	Contractor's team
				Measurement of concentration of suspended solids in the Odra River with the use of specialist device.		
88.	Protection of soil, surface waters and air	<p>Impermeability control of tanks</p> <p>The impermeability checks of fuel tanks of machinery and fuel and oil storage tanks shall be carried out regularly, as well as impermeability trials of machinery's tanks and systems.</p>	Task implementation area	Visual monitoring, photographic documentation	On an ongoing basis during the Task implementation period, at least once a month.	Engineer's team
				Verification of documentation handed over from the Contractor to the Engineer.		
88.	Protection of soil, surface waters and air	<p>Impermeability control of tanks</p> <p>The impermeability checks of fuel tanks of machinery and fuel and oil storage tanks shall be carried out regularly, as well as impermeability trials of machinery's tanks and systems.</p>	Task implementation area	Visual monitoring, photographic documentation.	On an ongoing basis during the Task implementation period, at least once a week	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer.		

Item	Issue	Subject of monitoring	Place of monitoring	Method of monitoring	Monitoring period and frequency	Responsible entity
89.	Requirements concerning control tests and treatment of excavated earth masses	<p>Determining quality (contamination level) of excavated earth masses</p> <p>Prior to the construction works in the places of the planned riffle removal and reconstruction of groynes, the Contractor shall carry out control tests and examine sediments and define their quality (contamination level) in accordance with applicable law (pursuant to the Act of December 14th, 2012 on waste and relevant executive acts). Such tests shall be implemented by an accredited laboratory.</p> <p>The aim of control tests concerns:</p> <ul style="list-style-type: none"> • establishing possibilities for management of excavated earth masses and sediments from reconstructed groynes according to applicable law (determining the metals content and concentration, polycyclic aromatic hydrocarbons and polychloric biphenyls), and • establishing possibilities for treatment of excavated output which cannot be reused within construction <p>Such tests should be carried out by accredited laboratory accepted by the Engineer. The examinations should evenly cover the entire output and guarantee minimum 1 (one) test to be performed per each 1 thousand m³ of excavated earth masses.</p> <p>Before the examination, the Contractor should present for the Engineer's approval the QAP including the quality tests of soil excavated from the river bed, quality (contamination level)</p>	Task implementation area	<p>Inspection of the progress of works on the tests in question and its compliance with the requirements of the EMP.</p> <p>Verification of handing over of the documents to the Engineer.</p>	<p>During the Task execution period, incl. prior to works commencement and during the works execution period – on regular bases (1 test per each 1 thousand m² of soil excavated from the river bed)</p>	Contractor's team
				<p>Verification of documentation handed over from the Contractor to the Engineer. (inspection of documents regarding the contamination level assessment, waste transfer sheets, shipping documents for water and land transportation)</p>	<p>On an ongoing basis during the Task implementation period (including, inter alia, prior to the commencement of the works and during the works).</p>	Engineer's team

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		<p>of earth masses originating from the river bed as well as frequency and depth of collecting the tests. QAP will also take into account guidelines included in Attachment 7 of EMP.</p>				