

## **Annex 1 – Plan of mitigating measures**

This Annex to the Environmental Management Plan for Contract 1A.2 Flood Protection of Gryfino, Ognica and Piasek village on the Odra River. Modernization of Marwicki Polder Stage III - pump station Krajnik, presents measures mitigating any adverse influence on the environment, forming guidelines for the Contractor under the aforementioned Contract. Cost and schedule of implementing the measures should be included in the total Bid Price. The Contractor shall cover all costs of implementing EMP, while the Approved Contract Amount shall include these costs.

The mitigating measures plan, where necessary, will be implemented in compliance with the World Bank's Policy given in the Project Operations Manual for Odra-Vistula Flood Management Project, World Bank operational policy OP.4.12, and in compliance with the Land Acquisition and Resettlement Action Plan, as well as in cooperation with the Team implementing this Plan. The requirement to discuss EMP implementation during working meetings and Site Meetings (item 137) applies also to the Engineer and the PIU.

Explanations related to tables in Annex 1 to EMP:

- 1) unless specified otherwise for the case, the Implementation Area means the area of performing any preparatory works, proper works (including Permanent Works and Temporary Works) any other works related to removal of defects and faults or performance of incomplete works specified in the Take-Over Certificate or found in the first year of the guarantee period.
- 2) unless specified otherwise for the case, the Implementation Period means the period of performing any preparatory works, proper works (including Permanent Works and Temporary Works) and any other works related to removal of defects and faults, or performance of incomplete works specified in the Take-Over Certificate or found in the first year of the guarantee period.
- 3) unless specified otherwise for the case, the requirements for the Contractor specified in EMP apply to the whole Implementation Area.
- 4) The mitigating measures plan, where necessary, will be implemented in compliance with the World Bank's Policy given in the Project Operations Manual for Odra-Vistula Flood Management Project, and in compliance with the Land Acquisition and Resettlement Action Plan, in cooperation with the Team implementing this Plan, and in compliance with World Bank's Operational Policy OP.4.12.

The terms and conditions described in Annex 1 to EMP are grouped into the following thematic categories.

Designation	Category	Item in table
A	Land acquisition rules	1 - 7
B	Requirements related to acquisition and compensation	8 - 9
C	Requirements related to protection of natural resources	10 - 32
D	Requirements related to the handling of earth obtained in the course of works	33 - 39
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M	Obligations on Contractor's personnel involved in the implementation of EMP	132 - 138
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Determining the timing for such items as: 20, 21, 22, 53, 57, 58, 59, 73, and 98.

The requirement to obtain Engineer's acceptance or of notification of the Engineer is specified in the following items: 5, 6, 10, 44, 50, 67, 78, 84, 101, 105, 107, 109, 110, 121, 122, 123, 124, 125, 127, 128, 129, 130, 132, 133, 135, 136, 140, 141, 142, and 145.

EMP terms and conditions on activities to be completed before commencement of works or during their early stages: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 17, 29, 30, 33, 40, 41, 44, 57, 60, 61, 69, 71, 74, 78, 81, 82, 89, 90, 101, 102, 103, 107, 111, 113, 114, 117, 121, 122, 123, 124, 125, 126, 127, 128, 130, 132, 133, 143.

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
A. Land acquisition principles					
1	–	Landscape protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Preparatory works preceding proper works' commencement Commencement of proper works should be preceded by performing the works for preparing the Implementation Area, including but not limited to preparing the temporary acquisition areas and identifying and preparing routes for machinery and vehicles traffic (agreed with the roads' operators). The conditions should be specified in detail in the "Construction Site and Works Organization Plan".	Contractor - Site Manager
2	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Principles of locating temporary acquisitions Temporary acquisitions should be located beyond horizontal tree crown projection (if felling of such trees was not necessary for the earthworks). Alternatively, they can be located under tree crowns, if approved by the Contractor's environmental supervision team.	Contractor - Site Manager
3	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Principles of locating temporary acquisitions Temporary acquisitions should be located in a manner protecting trees and bushes growing outside the area necessary for performance of the construction works.	Contractor - Site Manager
4	–	Human health and safety protection	Piasek Ognica Gryfino	Principles of locating temporary acquisitions Temporary acquisition areas should be located as far as possible from the types of land described in Table 1 of the regulation of the Minister of Environment dated 14 June 2007 on admissible levels of noise in the environment.	Contractor - Site Manager
5	WONS-OS.420.44.2019.MB.12 – section 11, 28	Animated nature protection	Piasek Ognica Krajnik Gryfino	Principles of locating temporary acquisitions Temporary acquisitions should be located in areas of the lowest possible impact on the environment, outside environmentally valuable areas specified by the Contractor's environmental team (especially, beyond borders of natural habitats, and sites of animals and plants protected under Natura 2000, and sites of plants, animals and fungi subject to legal protection). Temporary acquisition location requires the Engineer's approval.	Contractor - environmental supervision team
6	WONS-OS.420.44.2019.MB.12 – section 28	Animated nature protection	Piasek Ognica Krajnik Gryfino	Principles of locating temporary acquisitions Temporary acquisition areas should be located and prepared in accordance with the recommendations of the Contractor's environmental team, approved by the Engineer.	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
7	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Locating construction site back-up facilities in a flood risk area It is forbidden to locate back-up facilities and park machinery and vehicles used during the works within the reach of flood water (Q10%). Machinery can be parked only in designated areas. Conditionally, back-up facilities can be located and machinery and vehicles can be parked in flood risk areas if the areas are technically protected against flood, e.g. with sandbag dams. Alternatively, after a written statement on the readiness to use flood barrier sleeves of the length sufficient for protecting the whole structure (back-up facility, machinery parking) within 24 hours following flood alert announcement for the nearest gauge station at the Odra River. The Construction Site and Works Organization Plan must provide for additional space for setting up the barrier.	Contractor - Site Manager
B. Requirements regarding acquisition and compensation					
8	–	Acquisition of property for permanent occupation	Piasek Ognica Krajnik Gryfino	Compensation for permanent acquisition Purchase and payment of compensation for permanent acquisition and support for Project Affected Persons – as specified the Land Acquisition and Resettlement Action Plan document.	Investor Engineer
9	–	Acquisition of property for temporary occupation	Piasek Ognica Krajnik Gryfino	Compensation for temporary acquisition Payment of compensation for temporary acquisition before the start and/or at the works implementation stage – as per the Land Acquisition and Resettlement Action Plan document.	Investor Engineer Contractor
C. Requirements related to protection of natural resources					
10	WONS-OS.420.44.2019.MB.12 – section 28, WRiR-I.7131.39.2020.MS – section 5, WRiR-I.7131.38.2020.MS – section 5, WRiR-I.7131.45.MS – section 5, WRiR-I.7131.40.2020.MS – section 5	Animated nature protection	Piasek Ognica Krajnik Gryfino	Preparing a one-off inventory before commencing the works Before the works' commencement, a one-off inventory should be prepared for the Implementation Area. Its purpose is to survey the area for sites of protected species and species covered by domestic and regional red lists of endangered species and to identify potential sites of the species. The inventory report should be submitted before starting the works. <u>Commencement of the works requires the Engineer's approval of the report.</u>	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
11	WONS-OS.420.44.2019.MB.12 – section 23, ISOR.6220.4.2020.PP - section 8, WOPN-OG.6401.00.33.2020.KA MS – section 2, WOPN-OG.6401.00.34.2020.KA – section 2, WOPN-OG.6401.00.37.2020.MR – section 4	Animated nature protection	Piasek Ognica Krajnik Gryfino	Obtaining necessary permits to derogate from bans regarding protected species If strictly or partially protected plant, animal, or fungus species are found or identified during the inventory or in the Implementation Period, any actions regarding the species require obtaining a relevant permit specified by law (Article 56, Items 1 and 2 of the environmental protection act or a similar provision in force in the time of preparations for or performance of the works).	Contractor - environmental supervision team
12	WONS-OS.420.44.2019.MB.12 – section 28	Animated nature protection	Piasek Ognica Krajnik Gryfino	Preventing spreading of invasive plants Commencement of construction works requires a prior survey, attended by a phytosociologist, of the Implementation Area for identification of invasive plants' sites and their population. Identified plant sites should be clearly marked, e.g. with boards stating the plant name. Throughout the Implementation Period actions should be taken to limit spreading of the plants, including removal of topsoil with the invasive plants and taking it to a composting facility or eliminating effectively in another way. It is forbidden to use the topsoil from invasive plant sites for any other purpose during the investment project.	Contractor – Site Manager, environmental supervision
13	ISOR.6220.4.2020.PP – section 8 WOPN-OG.6401.00.33.2020.KA MS – section 2, WOPN-OG.6401.00.34.2020.KA – section 2, WOPN-OG.6401.00.37.2020.MR – section 4	Animated nature protection	Piasek Ognica Krajnik Gryfino	Limiting the works for protection of species Until the time a permit is obtained (Article 56 (1) and (2) of the Nature Conservation Act or similar legal regulation in effect during the Term of implementation) work should be stopped at the place where a protected species habitat has been identified.	Contractor - Site Manager
14	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Obligations resultant from the obtained derogation permits The obligations include the measures specified in the decisions obtained pursuant to Article 56 (1) and (2) of the nature conservation act (or a similar regulation in force in the Implementation Period) as recommended in the decisions.	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
15	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Minimizing the number of killed animals The works should be performed in a manner minimizing killing of animals. Trenches should be protected against animal access with temporary reptile and amphibian barriers or trench slopes should be locally shaped so that trapped animals can get out (the solutions should be made as instructed by the environmental supervision team). In addition, according to the recommendations of the reptile and amphibian specialist, if necessary, it is recommended to protect the migration routes of amphibians to water bodies, in order to limit the death rate if amphibians related to vehicle traffic. It is also necessary to protect all hollows formed in the location of works and within the building sites which are filled with water against amphibian access and breeding in this area – works must be carried out according to the recommendations of a herpetologist.	Contractor – expert herpetologist
16	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Protection of plants outside the site It is forbidden to damage vegetation outside the Implementation Area.	Contractor - Site Manager
17	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Limiting disturbance of animals Works should be organized in a manner that minimizes the work performance time to minimize the negative impact on the animals that live in the sites' vicinity.	Contractor - environmental supervision team
18	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Protection of protected fauna's breeding sites In case of discovering breeding sites of protected fauna species in the Implementation Area, it is obligatory to suspend the works until the species leave the sites or to obtain derogation permits for the protected species and eliminate the breeding sites.	Contractor - environmental supervision team
19	WOPN.OG.6401.00.37.2020.MR – section 3	Animated nature protection	Krajnik	Limiting performance of the works due to aquatic warbler presence If aquatic warbler specimen are spotted, the works should be suspended until the birds leave the site.	Contractor - environmental supervision team
20	WOPN.OG.6401.00.37.2020.MR – section 2	Animated nature protection	Krajnik	Limiting performance of the works due to aquatic warbler presence Due to the documented aquatic warbler sites at lots no. 326 and 328/1, Krajnik cadastral district, Gryfino municipality, from 1 April to 31 August the works should be carried out with particular care and minimizing the scope of the works that generate excessive noise.	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
21	WOPN-OG.6401.00.33.2020.KA MS – section 4.5, WOPN-OG.6401.00.34.2020.KA – section 4.5	Animated nature protection	Piasek Ognica	Limiting the time limit for damaging beaver dams Beaver dams can be destroyed outside the period of breeding, rearing offspring and wintering, i.e. from 1 March to 15 April and from 1 August to 30 November. The time windows can be changed only in special circumstances when the dammed up water poses a threat to people or property and only to the minimum extent necessary to eliminate the threat, after prior confirmation that taken actions would not endanger the local beaver population.	Contractor - environmental supervision team
22	WOPN-OG.6401.00.33.2020.KA MS – section 3, WOPN-OG.6401.00.34.2020.KA – section 3	Animated nature protection	Piasek Ognica	Reducing the time limit for damaging red-backed shrike nests Nests of red-backed shrike can be damaged after the nesting season, when the environmental supervision team confirms the young ones that depended on the breeding pair left the nest.	Contractor - environmental supervision team
23	–	Landscape protection Soil and land surface protection Protection of monuments and tangible property Animated nature protection	Piasek Ognica Krajnik Gryfino	Obligation to follow regulations in force in protected areas Performance of the construction works requires observing standards, bans, and guidelines, and respecting the limitations related to the existing protected areas and structures made pursuant to the Nature Conservation Act.	Contractor - environmental supervision team
24	–	Water protection	Piasek Ognica Krajnik Gryfino	Principles of discharging drain water Drain water should be discharged as specified in the water law permit or a relevant administrative decision.	Contractor - environmental supervision team
25	–	Water protection	Piasek Ognica Krajnik	Limiting the scope of draining Limiting the draining of wetlands and marshy areas to the bare minimum.	Contractor - Site Manager
26	WONS-OS.420.44.2019.MB.12 – section 4	Water protection	Piasek	Limiting the impact on hydrographic conditions Organization and technical conditions of the works related to the project should preclude disturbing the hydrographic conditions.	Contractor - Site Manager
27	WONS-OS.420.44.2019.MB.12 – section 5	Water protection	Piasek	Limiting the impact on the condition of water When implementing the project, contamination and littering (especially with oil-derivatives) of Kanał Piasek bed should be prevented; the construction works cannot deteriorate the condition of surface and ground water.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
28	ISOR.6220.4.2020.PP – section 9	Water protection Animated nature protection	Ognica	Limiting water turbidity In case of considerable water silting downstream the works, the works should be suspended for the period at least twice as long as the turbidity period. The necessity to pause the works is reported by the Contractor's environmental supervision team.	Contractor - Site Manager
29	WONS-OS.420.44.2019.MB.12 – section 17, ISOR.6220.4.2020.PP – section 10	Water protection Animated nature protection	Piasek Ognica Krajnik	Principles of storing removed plant material Plant material from cleared vegetation and meadow mowing should be stored in a manner that prevents its wash-away during high water or rainstorms.	Contractor - Site Manager
30		Water protection Animated nature protection	Piasek Ognica Krajnik	Prohibition of leaving cleared plant material in watercourses All cleared plant material should be removed from watercourses, ditches or canals. It is forbidden to leave cleared plants in the water environment.	Contractor - environmental supervision team
31	WONS-OS.420.44.2019.MB.12 – section 18	Landscape protection	Piasek Ognica Krajnik Gryfino	Requirements for grass seed mixes Slopes and crowns of flood embankments and other areas covered by sowing should be grassed over with mixes of native grass, suitable for river valleys and natural habitats. The mix should be agreed with a phytosociology specialist.	Contractor - environmental supervision team
32	WONS-OS.420.44.2019.MB.12 – section 18 BMP.ROŚ.6131.95.2020.AJB INF.6321.4.2020.PB OC.6131.41.2020	Landscape protection	Piasek Ognica Gryfino	Requirements for sapling species Species used for planting should comply with obtained administrative decisions and agreements, and if there are no guidelines, indigenous species appropriate for river valleys and respective natural habitats should be used.	Contractor - environmental supervision team
D. Requirements related to the handling of soil obtained in the course of works					
33	–	Soil and land surface protection	Piasek Ognica Gryfino	Obligation to strip topsoil Before starting proper works, it is obligatory to strip 20-30 centimeters of topsoil (or more, depending on local conditions and design documentation, e.g. in the case of low-bearing organic soil).	Contractor - Site Manager
34	WONS-OS.420.44.2019.MB.12 – section 2	Soil and land surface protection	Piasek Ognica Gryfino	Principles of storing topsoil Removed topsoil should be stored in mounds, separately from barren material. The mounds should be protected against contamination, driving over by vehicles, and compacting.	Contractor - Site Manager



Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
35	–	Water protection	Piasek Ognica Gryfino	Principles of storing soil Soil to be reused should be stored as far as possible from the river / canal bed. It is forbidden to store subsoil in hollows and oxbows as well as environmentally valuable areas specified by the Contractor's environmental supervision team.	Contractor - Site Manager
36	WONS-OS.420.44.2019.MB.12 – section 3	Water protection	Piasek	Principles of storing soil Stripped soil should be stored behind the embankment.	Contractor - Site Manager
37	WONS-OS.420.44.2019.MB.12 – section 2	Soil and land surface protection	Piasek Ognica Gryfino	Reuse of stripped topsoil and soil during the works Stripped topsoil should be reused, first of all, at the site, for restoring the fertile soil layer. Subsoil stripped during the works should be reused, first of all, at the site.	Contractor - Site Manager
38		Soil and land surface protection	Piasek Ognica Gryfino	Quality of the topsoil and subsoil reused during the works If current quality verification and assessment of topsoil and soil reveal unusual parameters and appearance (in terms of color, smell, consistency, etc.), the Contractor should have it examined to determine the quality of the soil batch with different parameters and appearance in compliance with applicable laws (i.e. the Waste Act, Environmental Protection Law, and their implementing legislation). The tests should be done by a laboratory certified for such tests. If reuse of the topsoil and subsoil is not possible due to its parameters or contamination, it should be handed over for utilization as specified in the waste handling act.	Contractor - Site Manager
39	–	Landscape protection Soil and land surface protection	Piasek Ognica Gryfino	Prohibition of works converting the landscape It is prohibited to perform any works that permanently distort the landscape, except for the works that are related to flood protection or construction, reconstruction, maintenance, repair, or renovation of water facilities. The transformation should be limited to the bare minimum.	Contractor - Site Manager
E. Requirements related to communication in the Implementation area					

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
40	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Setting traffic routes at the site The Implementation Area should have traffic routes defined. Pedestrian routes should be fenced and secured.	Contractor - Site Manager
41	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Proper signage of access roads Access roads to be used by the Contractor should be marked as required by applicable laws and agreed with Project Managers (marking and securing the Implementation Area, marking the diversions, and recommended road signage related to temporary traffic management, etc.).	Contractor - Site Manager
42	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Control of access road signage Access route signage should be regularly controlled.	Contractor - Site Manager
43	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Supplementation of access road signage Missing signage should be immediately restored or supplemented.	Contractor - Site Manager
44	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Terms of using access roads to the site, including their surroundings Commencement of the works requires the Engineer's approval of traffic management and works security plans, including the schedule, agreed with Road Operators and Traffic Management Authority. The Contractor should update the traffic management plans on an on-going basis, depending on the needs and progress of the Works.	Contractor - Site Manager
45	–	Landscape protection Soil and land surface protection Animated nature protection	Piasek Ognica Krajnik Gryfino	Rules of machinery and vehicle traffic on the site Machines and vehicles can drive only on haul roads and maneuvering yards; as much as possible, the machinery should move on fixed routes.	Contractor - environmental supervision team
46	–	Air protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Traffic speed limits Traffic speed should be limited in the site area and it should be included in the Works and Site Organization Plan.	Contractor - Site Manager
47	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Terms of using access roads to the Implementation Area, including their surroundings Traffic management and works security plans should be agreed with Road Operators.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
48	–	Landscape protection Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Obligation to maintain access roads clean Proper organizational and technical means should be used to keep the access roads clean.	Contractor - Site Manager
49	–	Air protection Noise protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to maintain access roads in good technical condition Paved areas (e.g. access roads) used by the traffic of vehicles transporting construction materials and aggregate should be kept in good technical condition.	Contractor - Site Manager
50	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Transport tonnage limits When transporting materials and equipment to and from the Implementation Area, statutory limits of load per axle have to be observed. If needed, all the necessary permits for transport of oversize or overweight loads have to be obtained from relevant authorities. Every time the Engineer should be notified of the necessity to transport such type of load.	Contractor - Site Manager
F. Management of the Implementation area (construction site, temporary acquisition areas)					
51	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Stormwater draining Use of hard, impermeable surface in temporary acquisition locations requires implementing technical solutions preventing transfer of contaminants from the area by stormwater to surface and ground water.	Contractor - Site Manager
52	WONS-OS.420.44.2019.MB.12 – section 10 ISOR.6220.4.2020.PP – section 6	Water protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Regular liquid waste removal Tight residential sewage tanks should be regularly emptied. The tanks can be emptied only by certified entities.	Contractor - Site Manager
53	WONS-OS.420.44.2019.MB.12 – section 3, 28	Soil and land surface protection	Piasek	Limiting the time for topsoil stripping Topsoil stripping to the extent necessary to implement the Sub-Task to be performed outside the vegetation period and breeding season (i.e. from September 1 until end of February). The time limit can be changed if the environmental supervision team obtains the permit(s) specified in Article 56, paragraphs 1 and 2 of the Nature Conservation Act (or equivalent regulations in force during preparations to and performance of the works) if an inspection reveals presence of a protected species. Topsoil stripping works should not be performed during heavy rains.	Contractor - Site Manager

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54	WONS-OS.420.44.2019.MB.12 – section 1	Landscape protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Minimizing conversion of landscape Conversion of temporarily acquired land should be limited to the bare minimum.	Contractor - Site Manager
55	ISOR.6220.4.2020.PP – section 7	Water protection Landscape protection Soil and land surface protection	Ognica	Minimizing conversion of watercourse beds When performing earthworks in a watercourse bed, lighter equipment should be used and the duration of the works should be minimized, whenever possible.	Contractor - Site Manager
56	–	Water protection Landscape protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Obligatory cleaning The Implementation Site should be kept clean.	Contractor - Site Manager
57	–	Animated nature protection	Piasek Ognica Krajnik Gryfino	Limitation of the work performance time The schedule of works should be prepared in such a way that locations and timing of specific stages of the construction works match the environmental decisions and EMP and do not impact the protected species present in the Implementation Area and its vicinity. The Contractor shall update the schedule to adapt the timing of works to fit the results of ongoing inspection carried out by Contractor's environmental supervision team.	Contractor - Site Manager
58	WONS-OS.420.44.2019.MB.12 – section 25	Animated nature protection	Piasek Ognica_	Limitation of the work performance time Due to protection of amphibians, the works should be performed from 16 May to the end of February. The time limit can be modified if the herpetological supervision team makes sure the breeding sites have been vacated.	Contractor - environmental supervision team
59	WONS-OS.420.44.2019.MB.12 – section 26	Animated nature protection	Piasek Ognica_	Limitation of the earthworks performance time Due to the protection of reptiles and amphibians, the earthworks should be performed from 1 December to 14 October. The time limit can be modified if the herpetological supervision team makes sure the migration has ended.	Contractor - environmental supervision team
G. Requirements related to waste management					
60	WONS-OS.420.44.2019.MB.12 – section 12,	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles Waste should be stored in designated containers that prevent dusting and draining of leachate to ground, in designated places that are fenced and marked.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
61	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles Before handing over the hazardous waste to certified entities, store the waste in a manner that prevents permeation of hazardous substances to the environment, i.e. in tight containers, in roofed places with hard, impermeable surface, protected against third-party access.	Contractor - Site Manager
62	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles If it is necessary to store hazardous waste, the place of storage must be beyond the reach of flood water (Q1% – so called centennial water).	Contractor - Site Manager
63	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles It is forbidden to store in the Implementation Area any waste related to repairs and maintenance of the equipment, machinery, and devices used for the construction works that contain hazardous substances. The repairs and servicing should be done by special companies and persons authorized by the manufacturer to perform the work (authorized service). The waste generated during the works (e.g. damaged parts, seals, filters, empty lubricant and liquid containers, used oil and liquids, etc.) has to be collected by repair or service contractors.	Contractor - Site Manager
64	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles It is forbidden to store waste in places with shallow ground water level, in highly permeable formations, or in peaty hollows.	Contractor - Site Manager
65	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles Waste, including hazardous waste, has to be collected by entities licensed to do so. Waste collection should be documented.	Contractor - Site Manager
66	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles The generated waste should be handled according to applicable regulations. The organization of works should support waste separation.	Contractor - Site Manager
67	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling procedures Before starting the works, the Implementation Area should be surveyed for "illegal waste dumps" and photo documentation should be prepared for the places. The documentation should be submitted to the Engineer.	Contractor - Site Manager

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68	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles The Implementation Area should be protected against such “illegal waste dumps” throughout the Implementation Period.	Contractor - Site Manager
H. Requirements related to tree clearance, clearing shrubs and protection of plants not designated for removal					
69	–	Landscape protection Animated nature protection	Piasek	Scope and stage of vegetation clearance Before starting the earthworks, trees and bushes on the footprint of the embankment base widened by 1.0 m on each side should be cleared.	Contractor - Site Manager
70	ISOR.6220.4.2020.PP – section 2 (page 3)	Animated nature protection	Piasek Ognica Gryfino	Limiting trees and bushes clearance Clearance of trees and bushes should be limited to the bare minimum specified in the project’s scope.	Contractor - Site Manager
71	WONS-OS.420.44.2019.MB.12 – section 23, 28, BMP.ROŚ.6131.95.2020.AJB, ISOR.6220.4.2020.PP – section 2 (page 3)	Animated nature protection	Piasek Ognica Gryfino	Control of the occupancy of the trees to be cleared The trees to be cleared should be checked for occupancy by protected species. If there are nests of the species’ at the trees, secure the specimen and / or follow the guidelines from the permits obtained pursuant to Article 56 (1) and (2) of the Nature Conservation Act (or equivalent law in force in the Implementation Period). The works should be performed under environmental supervision.	Contractor - environmental supervision team
72	WONS-OS.420.44.2019.MB.12 – section 24, ISOR.6220.4.2020.PP – section 2 (page 3)	Animated nature protection	Piasek Ognica Gryfino	Protection of bats during the clearance To limit the loss of protected bat species’ specimen that can be present in tree hollows, clearance of the trees with circumference exceeding 50 cm should be preceded with bat specialist’s inspection to check presence of bats in majority of bigger trees. The clearance should be done under bat specialist’s supervision.	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
73	WONS-OS.420.44.2019.MB.12 – section 23, BMP.ROŚ.6131.95.2020.AJB, ISOR.6220.4.2020.PP – section 2 (page 3) OC.6131.41.2020	Animated nature protection	Piasek Ognica Gryfino	Limiting the clearance time limit The clearance of trees and bushes in the scope necessary for the performance of the Contract should be done outside the vegetation period and outside the bird nesting period: Gryfino – in the period from October 16 until end of February, Piasek - from 1 September to the end of February. Ognica – from 1 September to the end of February The time limit can be changed if the environmental supervision team obtains the permit(s) specified in Article 56 (1) and (2) of the Nature Conservation Act (or equivalent regulations in force in the Implementation Period) if the inspection reveals occupancy of the trees by protected species.	Contractor - environmental supervision team
74	WONS-OS.420.44.2019.MB.12 – section 22,	Animated nature protection	Piasek Ognica Gryfino	Securing the trees and bushes that are not planned to be cleared The works should be performed in a manner that does not harm trees and bushes, the trees and bushes not to be cleared growing in the Implementation Area and exposed to damage in result of driving vehicles, moving machinery, etc., should be secured by such measures as protective trunk planking at least up to 1.5 m above the ground. If the scope of the works justifies it, also crowns, trunks, and root systems should be protected against mechanical damage and drying. Tree crowns over the temporary acquisition areas to be used for parking of vehicles and equipment should be assessed for the risk of damage and, if needed, preventive maintenance trimming should be done to reduce the risk of damaging branches during the proper works.	Contractor - environmental supervision team
75	–	Animated nature protection	Piasek Ognica Gryfino	Procedures for tree damage cases If a tree gets damaged, it is necessary to immediately undertake, under the Contractor’s environmental team supervision, the measures required to limit the damage consequences.	Contractor - environmental supervision team
I. Requirements related to prevention of environment pollution					
76	–	Air protection Noise protection	Piasek Ognica Krajnik Gryfino	Limiting engine operation time Combustion engine operation time should be limited.	Contractor - Site Manager

Environmental Management Plan

Flood protection of Gryfino, Ognica, and Piasek village on Odra River. Modernization of Marwicki Polder Stage III - pump station Krajnik

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
77	WONS-OS.420.44.2019.MB.12 – section 20,	Air protection Noise protection	Piasek Ognica Krajnik Gryfino	Limiting the number of runs Runs of vehicles and machinery and earthworks should be minimized to those required for the performance of the Contract.	Contractor - Site Manager
78	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Survey of illegal sewage dumps before starting the works Starting the works requires prior survey of the work area for illegal sewage dumps to water and ground and submitting the findings to the Engineer.	Contractor - Site Manager
79	WONS-OS.420.44.2019.MB.12 – section 9 ISOR.6220.4.2020.PP – section 2	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Prohibition of repairing and cleaning construction equipment and machinery on the site Construction equipment and machinery should be repaired and cleaned outside the back-up facilities, in places equipped with proper infrastructure, such as washes or workshops.	Contractor - Site Manager
80	WONS-OS.420.44.2019.MB.12 – section 19,	Landscape protection Soil and land surface protection Water protection	Krajnik	Protection of the area during painting When painting, protect the area adjacent to the painted objects with impermeable and paint-resistant material.	Contractor - Site Manager
81	WONS-OS.420.44.2019.MB.12 – section 6 ISOR.6220.4.2020.PP – section 3	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Protecting the areas used for maintenance of machinery and vehicles For the time of performing the works, the places used for maintaining construction machinery and vehicles should be made impermeable (e.g. by using plastic foil or geomembrane with the thickness of at least 0.3 mm resistant to the chemicals used) and be equipped with sufficient store of proper sorbents.	Contractor - Site Manager
82	ISOR.6220.4.2020.PP – section 5	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Parking space for machinery and equipment used at the site Equipment and machinery used for the construction works must have permanent parking place(s) outside the river beds. The parking space should be protected against leaks of oil derivatives to soil and water environment. When the equipment, machines and vehicles are not used, they must be parked in the dedicated places.	Contractor - Site Manager
83	WONS-OS.420.44.2019.MB.12 – section 6 ISOR.6220.4.2020.PP – section 3	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Failure impact minimization Back-up facilities and places where construction equipment is used should be equipped with sufficient amounts of proper types of sorbents.	Contractor - Site Manager



Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
84	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Procedures for spillage cases Due to the risk of spilling oil-derivatives or other substances that are harmful to the soil and water environment, the Contractor shall prepare a document called spillage procedure (see item 6.11 of EMP), have it approved by the Engineer, and follow the approved procedure.	Contractor - Site Manager
85	WONS-OS.420.44.2019.MB.12 – section 7	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Procedures for situations when a substance is spilled If oil derivatives or other substances harmful to the soil and water environment are accidentally spilled, they should be immediately neutralized (using, for instance, sorbent), collected, and handed over to entities certified for disposal of such waste for neutralization according to the spillage procedure in place. The place where the oil derivative is spilled should be restored to its original condition. If the spilled substance gets to water, its spreading should be immediately limited and the substance should be collected from the surface.	Contractor - Site Manager
86	–	Water protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Storage of hazardous materials and fuels If hazardous materials or fuels are stored in the Implementation Area, they should be properly protected, so as third parties and unauthorized persons do not have access to it, and information about the hazard should be posted on warning boards. Hazardous materials and substances should be stored in dedicated, marked containers; it is forbidden to pour the substances to containers not approved for the substance. Fuels and hazardous materials should be stored in places of proper impermeability protecting against their release to soil.	Contractor - Site Manager
87	WONS-OS.420.44.2019.MB.12 – section 10 ISOR.6220.4.2020.PP – section 6	Water protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Principles of furnishing the site with toilets The Implementation Area should be furnished with a sufficient number of portable toilets and all the employees should be trained to maintain proper hygiene conditions at the site and in its direct vicinity. The location and number of toilets depend on the progress of works and number of employees. It is advised to locate one toilet not further than 700 m from any place of performing the works.	Contractor - Site Manager
88	–	Soil and land surface protection Water protection Air protection Animated nature protection	Piasek Ognica Krajnik Gryfino	Materials used during implementation of the Contract The contract should be executed using only materials, raw materials, fuels, fertilizers, concrete mixes, etc. that are certified and approved for use.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
89	WONS-OS.420.44.2019.MB.12 – section 6 ISOR.6220.4.2020.PP – section 3	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Furnishing of construction equipment fueling places The places where construction equipment is fueled and fuels and / or lubricants are stored should be equipped with sufficient amounts of proper types of sorbents. The construction equipment fueling place should also be protected against release of the oil derivatives to soil by spreading impermeable foil or geomembrane (at least 0.3 mm thick, resistant to the handled substance) for the time of fueling.	Contractor - Site Manager
90	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Equipment used for fueling construction equipment Construction equipment should be fueled using certified mobile or stationary fuel dispensers and/or dedicated certified containers.	Contractor - Site Manager
91	WONS-OS.420.44.2019.MB.12 – section 8 ISOR.6220.4.2020.PP – section 1	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Restrictions regarding location of construction equipment fueling places Construction equipment should be fueled outside wetlands and areas in close vicinity of open surface water and other valuable areas specified by the environmental supervision team.	Contractor - Site Manager
92	WONS-OS.420.44.2019.MB.12 – section 8 ISOR.6220.4.2020.PP – section 1	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Prohibition of fueling vehicles at the site Vehicles used can be fueled only at gas stations.	Contractor - Site Manager
93	–	Air protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Protection against dusting It is necessary to use the organizational and technical means that prevent excessive dusting and blowing away of loose material and aggregate to be used at the construction stage, both in transport, storage, use, and when preparing and loading the concrete mix used for construction of the anti-filtration screen in the flood embankment.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
94	WONS-OS.420.44.2019.MB.12 – section 13, 15 ISOR.6220.4.2020.PP – section 4	Landscape protection Water protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Requirements for the technical condition of the equipment used at the construction site The equipment, machinery, and vehicles used for the construction works must be fully operational in technical terms, be compliant with applicable standards, meet all the requirements specified in their approvals for use (including roadworthiness, if necessary), have relevant certificates and be characterized by low emission rates. The equipment, machinery, and vehicles should be regularly inspected and available organizational means should be used to eliminate the risk of contaminating the soil and water environment, especially by spilling fuel, hydraulic oils, or oil derivatives. The monthly reports should include information about the conducted inspections of the equipment, machinery, and vehicles.	Contractor - Site Manager
95	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Limiting the number of vehicles and machines on the site Only the vehicles, machinery and equipment required for performance of the current Sub-Task's works can be present in the Implementation Area.	Contractor - Site Manager
96	WONS-OS.420.44.2019.MB.12 – section 15,	Noise protection	Piasek Ognica Gryfino	Limiting noise emission To minimize the noise emission, technologies used for the construction works should be the least burdensome in the respect, the works should be well organized, and the equipment should be operated properly and kept in good technical condition.	Contractor - Site Manager
97	WONS-OS.420.44.2019.MB.12 – section 16,	Air protection Noise protection	Piasek Ognica Gryfino	Limiting noise emission Simultaneous operation of a higher number of equipment units in one place should be avoided.	Contractor - Site Manager
98	WONS-OS.420.44.2019.MB.12 – section 14,	Human health and safety protection	Piasek Ognica Gryfino	Limiting the day times for performing the works Construction works should be performed only from 6.00 a.m. to 10.00 p.m. It does not apply to the works that require continuity.	Contractor - Site Manager
J. Requirements for the works after completion of proper works					
99	WONS-OS.420.44.2019.MB.12 – section 27	Landscape protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Obligation to restore the areas used during the works After completion of the construction works the Implementation Area should be cleaned and restored to the original condition (restored).	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
100	–	Landscape protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Obligation to maintain the areas sown-over with grass mixes The areas sown-over with grass mixes should be maintained (embankment surface and reclaimed areas), including mowing at least twice a year and removing of so-called hard plants. The measure applies also to the first year of the guarantee period.	Contractor - Site Manager
K. Requirements related to protection of cultural heritage and tangible property					
101	–	Human health and safety protection	Piasek Ognica Gryfino	Inventory of buildings exposed to possible damage Before commencement of the works that involve vibrations that could be burdensome to the local residents and expose the buildings near the works to potential damage, an inventory of the existing buildings should be prepared with particular attention paid to the existing cracks and damage, if any. The inventory should be prepared with the Parties concerned. Every report from the inventory should be submitted to the Engineer for approval.	Contractor - Site Manager
102	–	Landscape protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Inventory of the infrastructure exposed to potential damage It is required to prepare the inventory as a photographic documentation of the Implementation Area with particular focus on of the technical condition of the buildings located in the vicinity of the construction material transport roads.	Contractor - Site Manager
103	–	Landscape protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Inventory of the infrastructure exposed to potential damage Before commencement of the works, it is necessary to inspect the roads together with the road Operator and prepare a report on their condition before vehicles heavier than 3.5 ton start making runs to the site.	Contractor - Site Manager
104	–	Landscape protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to restore damaged material goods If tangible property is damaged as a result of freight operations, the goods should be restored to their original condition as shown in the inventory.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
105	–	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	Obligation to restore damaged infrastructure The Contractor shall be liable for any damage to buildings and structures, roads, ditches, culverts, water and gas lines, power supply poles and lines, cables, survey control points and any other networks, as well as other structures such as road signage and markings, navigation markings, information boards, cultural assets, etc., caused by the Contractor or the Contractor's subcontractors during the works. The Contractor shall also be responsible for restoring the continuity of the ditches and drain systems in the work area and roads used for transport if there is any damage caused by the works and transport related to servicing of the site. The Contractor shall immediately repair the damage at its own cost and, if necessary, perform other works requested by the Engineer.	Contractor - Site Manager
106	–	Human health and safety protection	Piasek Ognica Gryfino	Monitoring the condition of the buildings during the works that generate vibrations The condition of the buildings covered by the inventory should be monitored during the works that generate vibrations of significant amplitude. If any damage is reported, the building's technical status should be restored on the basis of the inventory results.	Contractor - Site Manager
107	–	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	Conducting earthworks under archeological supervision Before starting the works archeological supervision should be hired for supervising the earthworks. The archaeological supervision team should consist of one or more persons holding appropriate industrial credentials. The composition of the archeological supervision team requires the Engineer's approval.	Contractor - Site Manager
108	–	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	Obligation to obtain permits from Provincial Heritage Monuments Protection Office If necessary, a permit for conducting archeological rescue excavations and other permits in the respect should be obtained from the provincial heritage monuments protection office.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
109	–	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	Procedures for monument identification cases If an object likely to be a heritage asset is identified during the construction works or earthworks, the Contractor shall suspend all the works that could damage or destroy identified objects, and the object and its vicinity have to be protected using available means, and the Provincial Heritage Protection Office should be notified immediately; if it is not possible, it should be the mayor of Cedynia or Gryfino municipality or head of Widuchowa county. The Engineer should be notified of the cases.	Contractor - Site Manager
110	–	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	Procedures for cases of finding human remains If human remains are found (graves with human skeletons), it is required to notify the police, provincial heritage protection office, and the Engineer.	Contractor - Site Manager
L. Requirements related to ensuring health and safety of people					
111	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Ensuring access for uniformed services Throughout performance of proper works access should be ensured for ambulances and fire engines. Therefore, the routes, including detours, should be marked in a manner that is legible to the services.	Contractor - Site Manager
112	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Protection of people against increased traffic People should be protected against the increased traffic at the roads used during the construction works. For performance of proper works, the Contractor shall provide, install, and operate all the temporary protection equipment, ensuring safety of vehicles and pedestrians.	Contractor - Site Manager
113	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Identification of safety hazard areas It is required to identify the safety hazard areas that pose a threat to human life and health, mark them with warning boards, and secure against access of unauthorized persons.	Contractor - Site Manager
114	WONS-OS.420.44.2019.MB.12 – section 21,	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Securing the Implementation Area The construction site and temporary acquisition areas should be secured against access of unauthorized persons in a manner that ensures safety.	Contractor - Site Manager
115	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Organizational requirements regarding health and safety Safety of people should be ensured during performance of the works.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
116	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Visibility of the construction site marking Visibility of the barriers and signs required for safety has to be ensured in daytime and nighttime.	Contractor - Site Manager
117	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to review and restore construction site marking OHS marking should be regularly checked and, if damaged or stolen, immediately restored or supplemented.	Contractor - Site Manager
118	–	Water protection Soil and land surface protection Human health and safety protection	Piasek Ognica Krajnik Gryfino	Storage of construction materials Materials used for construction works should be stored in a manner protecting them against damage and ensuring safety of people and property, precluding tipping, sliding or falling of goods and equipment.	Contractor - Site Manager
119	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Ensuring health and safety in relation to the condition of used equipment Ensuring health and safety in relation to the applied technical means by using fully operational machinery and tools subject to periodic technical inspections, as required by the manufacturer and OHS regulations.	Contractor - Site Manager
120	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Ensuring health and safety in relation to the manner of using the equipment Ensuring health and safety in relation to the applied technical means by using the machinery and tools as intended.	Contractor - Site Manager
121	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Ensuring health and safety of people, including fire protection HASP should be prepared, approved by the Engineer, implemented, and should remain in force until the construction works are completed. The fire protection requirements specified in HASP should include ban on lighting fires and burning flammable materials in the Implementation Area.	Contractor - Site Manager
122	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Quality assurance plan Quality Assurance Plan for each type of works should be prepared, approved by the Engineer, and implemented before commencing the works.	Contractor - Site Manager
123	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Evacuation plan An Evacuation Plan should be prepared for the Implementation Area for emergency situations (fire, accident, failure, etc.). The Plan should be approved by the Engineer before commencing the works.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
124	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Construction site organization principles A Site and Works Organization Plan should be prepared, approved by the Engineer, and implemented.	Contractor - Site Manager
125	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Procedures for flood risk situations A Flood Protection Plan for the Implementation Area should be prepared, approved by the Engineer, and implemented in the period of performing proper works.	Contractor - Site Manager
126	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to organize fire protection Necessary fire protection should be ensured and organized as specified in the Fire Protection Act.	Contractor - Site Manager
127	–	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling principles - waste handling plan Before starting the works, the Waste Handling Plan should be prepared and submitted to the Engineer for approval. The Plan should specify the principles of handling the waste generated during the works, and take into account the guidelines and procedures specified in EMP, providing for the possibility of finding such hazardous materials as plant protection products, lubricants, fuels, and other, and the obligation to notify the police in case of finding unidentified objects that could be a hazard to human health and safety or the environment.	Contractor - Site Manager
128	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to carry out an unexploded ordnance survey and ensure continuous unexploded ordnance supervision Before starting the works, an unexploded ordnance survey should be prepared for presence of hazardous objects of military origin. If such an object is found, it should be disposed of according to applicable regulations. The survey must be done by persons with relevant certificates. It is obligatory to ensure continuous unexploded ordnance supervision of civil works, consisting in on-going monitoring of the area for hazardous objects of military origin, and their disposal The composition of the ordnance disposal supervision team requires the Engineer's approval.	Contractor – authorized ordnance disposal unit



Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
129	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Procedures for cases of finding unexploded bombs If unexploded bombs or duds are found: <ul style="list-style-type: none"> <li>• work should be stopped immediately,</li> <li>• the area around the place should be evacuated,</li> <li>• bomb disposal supervision and the police should be notified immediately and their instructions should be followed,</li> <li>• the Engineer and the Employer should be notified immediately.</li> </ul> It is absolutely forbidden to lift the unexploded bombs or duds, unearth them, bury, move, throw into water or fire, etc.	Contractor - Site Manager
130	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to prepare a risk management plan The following document should be prepared and submitted for the Engineer's approval: Environmental and Social Risk Management Strategy and Implementation Plan. It should include such elements as description of the actions to be taken to manage risks, description of the materials and equipment used, description of the management processes, etc. The plan should be executed by the Contractor and the Contractor's subcontractors for risk minimization. At the Engineer's request the documentation should be updated.	Contractor - Site Manager
131	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Preventing HIV-AIDS and other infectious diseases such as COVID 19 A training program for raising the awareness of spreading HIV-AIDS should be organized and held by an approved service provider. Furthermore, all other measures specified in the Contract (General Conditions, section 6.7) should be implemented to limit the risk of HIV spreading with the Contractor's personnel and local community and to promote early diagnostics and support for the infected. The measures should be implemented throughout the term of the Contract (including the Defects Reporting Period) at least every other month. Those will be campaigns that inform, educate, and raise awareness of spreading HIV-AIDS diseases. The training will cover also other infectious diseases (such as COVID 19).	Contractor - Site Manager
M. Obligations on the Contractor's personnel involved in implementation of EMP					

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
132	–	EMP implementation	Piasek Ognica Krajnik Gryfino	<p>Obligation to appoint a Coordinator for EMP</p> <p>Before starting the works, a person for coordinating and supervising EMP-related measures should be appointed in the Contractor's team. The Coordinator's responsibilities shall include:</p> <ul style="list-style-type: none"> <li>• supervision of implementing EMP measures at subsequent stages of the Contract's performance,</li> <li>• current monitoring of the progress of implementing the measures specified in attachments 1 and 2 to EMP during the Contractor's performance,</li> <li>• informing the management of the Contractor's team of the obligations resultant from EMP at given stages of the works and of the problems encountered during EMP implementation,</li> <li>• cooperation with the remaining part of the Contractor's team for implementation of EMP,</li> <li>• reporting EMP implementation progress,</li> <li>• cooperation with the persons in charge of implementing EMP in the Engineer's and Employer's teams.</li> </ul> <p>EMP Coordinator cannot belong to the Contractor's environmental supervision team. The person proposed for the function has to be approved by the Engineer.</p>	Contractor - Site Manager
133	WONS-OS.420.44.2019.MB.12 – section 28 WOPN-OG.6401.00.33.2020.KA MS – section 1, WOPN-OG.6401.00.34.2020.KA – section 1, WOPN-OG.6401.00.37.2020.MR – section 1, ISOR.6220.4.2020.PP – section 1 (page.3)	EMP implementation	Piasek Ognica Krajnik Gryfino	<p>Obligation to employ an environmental supervision team</p> <p>An environmental supervision team should be hired for preparations to and execution of the works. The environmental supervision team should consist of specialists with the knowledge of plants, reptiles, amphibians, mammals, and bats. One member of the environmental supervision team may be responsible for a maximum of 2 specializations. The Contractor's environmental supervision team shall be responsible for monitoring the status of the environment and proper implementation of the measures that mitigate the impact of the works on the environment. The composition of the team has to be approved by the Engineer before commencing the works.</p>	Contractor - environmental supervision team
134	–	EMP implementation	Piasek Ognica Krajnik Gryfino	<p>Responsibilities of the environmental supervision team</p> <p>If required and justified, the Contractor's environmental supervision team should prepare the materials and requests required for the permits to derogate from the bans on protection of plant, fungus, or animal species on the terms and in the manner specified in the Nature Conservation Act of 16 April 2004.</p>	Contractor - environmental supervision team

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
135	WONS-OS.420.44.2019.MB.12 – section 28 WOPN-OG.6401.00.33.2020.KA MS – section 1.3, WOPN-OG.6401.00.34.2020.KA – section 1.3, WOPN-OG.6401.00.37.2020.MR – section 1, ISOR.6220.4.2020.PP – section 1 (page.3)	Implementation	Piasek Ognica Krajnik Gryfino	Responsibilities of the environmental supervision team The environmental supervision exercised by the Contractor's specialists includes: <ul style="list-style-type: none"> <li>• before starting the construction works, setting a safe work commencement date (especially by excluding the amphibian migration period and bird breeding period) and necessary precautions for limiting the negative impact of the works on the reported species of fauna and flora.</li> <li>• review and on-going control of the Implementation Area before commencing the works and during their performance, including preparation of relevant reports that make up the documentation of proper environmental supervision as well as communication of due implementation of mitigating measures,</li> <li>• requesting the Engineer to take actions necessary to mitigate the Contract's negative impact on natural habitats and species of Community interest and domestic protection of species that could not be predicted and / or identified at the stage of determining the terms and conditions of the Contract during the procedure aimed at issuing the environmental constraints decision; the measures can be taken only after the Engineer's approval;</li> <li>• permits for works on sections of the power supply line under conversion,</li> <li>• checks of the implemented minimizing measures' efficiency.</li> </ul>	Contractor - environmental supervision team
136	WOPN-OG.6401.00.33.2020.KA WOPN-OG.6401.00.34.2020.KA WOPN-OG.6401.00.37.2020.MR WRiR-I.7131.39.2020.MS – section 7, WRiR-I.7131.38.2020.MS S – section 7, WRiR-I.7131.45.MS S – section 7, WRiR-I.7131.40.2020.MS S – section 7,	EMP implementation	Piasek Ognica Krajnik Gryfino	Responsibilities of the environmental supervision team The Contractor's environmental supervision team shall provide the regional directorate for environmental protection with regular reports required by the administrative decisions obtained for performance of the works, and provide the Engineer with monthly, quarterly, and final reports.	Contractor - environmental supervision team
137	–	EMP implementation	Piasek Ognica Krajnik Gryfino	Obligation to participate in monthly EMP meetings Throughout the implementation of EMP measures, monthly meetings of PIU, the Engineer, and the Contractor will be held for review and control of the mitigating and monitoring measures' implementation.	PIU, the Engineer, the Contractor

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
138	–	Human health and safety protection EMP implementation	Piasek Ognica Krajnik Gryfino	Training of the persons involved in execution of the Contract In the first quarter of the works' performance training should be held for the management and technical and engineering staff (including final tests verifying the participants' knowledge) on terms and conditions of EMP and protective measures for the construction works' execution. The training should be prepared with the environmental supervision team. Furthermore, the staff that handles fuels and other oil derivatives should be trained on principles of protecting the soil and water environment and measures for protecting it, including use of sorbents.	Contractor - Site Manager
N. Specific requirements defined in the World Bank's ES policies					
139	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to hold training on bullying and sexual harassment Training and implementation of a program of raising awareness with respect to sexual harassment and bullying at work. Such activities should be carried out throughout the whole term of Contract, until the deadline for notices of defects, at least every other month. They will have the form of information, educational and awareness-raising campaigns.	Contractor - Site Manager
140	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to report bullying and sexual harassment incidents The Contractor is obliged to ensure such conditions for performance of the Contract that prevent bullying or sexual harassment incidents toward the Contractor's and subcontractors' personnel, any other persons involved in the Contract's performance, and any third parties. The Engineer should be immediately notified of any reported or suspected cases of sexual harassment and bullying.	Contractor - Site Manager
141	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to inform employees about the right file complaints All the persons employed at the site should be informed that they can lodge complaints regarding remuneration and work conditions and be handed a leaflet with the details necessary for filing the complaints and requests as well as assurance there will be no retaliation against a person reporting an issue. The leaflet's content should be agreed with the Engineer.	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
142	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Preparing and implementing procedures on ongoing notification about ES related problems</p> <p>In a period not longer than 30 days from the start of Contract, the Engineer will develop and hand over to the Contractor a set of procedures on ongoing notification related to:</p> <ul style="list-style-type: none"> <li>• extraordinary risks (i.e. emergencies and crisis situations specified in chapter 5.12 of EMP);</li> <li>• accidents and near misses;</li> <li>• cases of sexual harassment and bullying;</li> <li>• employee's complaints regarding remuneration and work conditions.</li> </ul> <p>The Contractor shall immediately notify the Engineer about any problems related to the aforementioned issues, in accordance with terms and conditions set out in contractual procedures.</p>	Engineer Contractor
143	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Obligation to employ an OHS specialist</p> <p>An OHS specialist should be employed. The specialist should have qualifications and professional experience as set out in Polish labor law regulations. This specialist will ensure compliance with health and safety at work regulations set out in the Contract's documents and any national legislation in force.</p>	Contractor - Site Manager
144	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Educational measures regarding OHS principles and regulations</p> <p>OHS supervision shall prepare a program and shall carry out training on the raising of awareness of OHS rules and regulations for Contractor's on-site personnel.</p> <p>Such activities will be carried out throughout the duration of building works, at least every 6 months.</p> <p>They will have the form of information, educational and awareness-raising campaigns on OHS to the extent fitting the current stage of the performance of the Contract.</p>	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
145	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Obligation to report accidents The Contractor is obliged to ensure such conditions for performance of the Contract (including conditions of carrying out works) that prevent accidents of persons involved in the performance of the Contract (including, without limitation, the personnel of the Contractor, Engineer, Investor, PCU, subcontractors, suppliers, etc.), and any third parties. The Engineer should be informed of accidents involving the employees and third parties according to the procedure provided by the Engineer. In case of an accident event, the Contractor shall take any actions required by applicable laws, such as the Construction Law and Labor Code.</p>	Contractor - Site Manager
146	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Obligation to ensure equality of rights Equality of rights should be ensured in remunerating employees performing the same work, irrespectively of their gender, sexual orientation, and age. Moreover, persons employed for the Contract shall not be harassed or discriminated against based on gender, sexual orientation, or age.</p>	Contractor - Site Manager
147	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Terms &amp; conditions of employing adolescent workers It is forbidden to employ young persons under the age of 15, who did not complete at least eight years of primary education and did not provide a medical certificate attesting that the type of work poses no risk to his / her health. The Contractor shall ensure that young employees (under the age of 18) do not perform work forbidden for young workers as specified in applicable regulations.</p>	Contractor - Site Manager
148	–	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>ES policy The Contractor shall take all necessary measures to make sure the Contractor's personnel is aware of the ES Policy submitted with the Bid and described in point 6.11 of EMP, including specific prohibited behavior, and understands the consequences of engaging in such prohibited behavior. The Contractor shall also make sure the ES Policy is visibly posted in the places where the Contractor's personnel is present. The condition applies to the Contractor and its personnel, irrespectively of the legal form of the cooperation and to the Subcontractors and their personnel.</p>	

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
O. Guidelines related to the performance of works in the case of a state of epidemic or state of epidemic threat					
149	-	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Conduct in the epidemic status or the state of epidemic emergency If the epidemic status or the state of epidemic emergency is in force during the works, the Contractor is obliged to:</p> <ul style="list-style-type: none"> <li>a) provide all the persons present at the Site with all the necessary precautions for protection of health and safety of blue collar workers, the Contractor's personnel, in the scope described in the Terms and Conditions of the Contract, especially the means required for avoiding or minimizing spreading of diseases, including the means designed to eliminate or minimize spreading of infectious diseases that could be connected with inflow of permanent or temporary labor for the performance of the Contract, in the manner specified by applicable laws, e.g. in the regulations issued pursuant to Article 46a of the act of 5 December 2008 on Preventing and Combating Infections and Infectious Diseases among Humans (i.e. Polish Journal of Laws 2019, item 1239, as amended), regulations on imposing specific limitations, rules, and bans due to the state of epidemic,</li> <li>b) appoint a person in charge of the Contract's operational health and safety principles related to the epidemic status or the state of epidemic emergency,</li> <li>c) implement relevant recommendations from the World Bank and sanitary authorities in the territory of Poland,</li> <li>d) work with the Employer and the Engineer, especially provide current information about taken or planned precautions, including protection of the Site against access of unauthorized persons, implemented procedures and updating of the documents specified in section 6.11, and in particular HASP, Waste Management Plan, Construction Site and Works Organization Plan, ES Management Strategy and Implementation Plans,</li> <li>e) organized an information campaign (e.g. by placing posters and instructions at the Site) regarding symptoms and signs</li> </ul>	Contractor - Site Manager

Item	Decision and agreements on environment protection	Issue	Location	Mitigating measure	Responsibility of
				<p>of infection, spreading of the virus, preventive measures (including regular washing of hands)</p> <p>f) organize training for blue-collar workers, the Contractor's personnel at least on:</p> <ul style="list-style-type: none"> <li>• updated procedures and documents,</li> <li>• symptoms and signs of COVID-19 (or another contagious disease related to the introduction of the state of epidemic / epidemic threat), including with respect to self monitoring of symptoms, virus spread, available protective equipment,</li> <li>• procedures for cases of noticing sickness symptoms,</li> <li>• applicable regulations on quarantine of employees and their families, remuneration for quarantine and isolation periods, healthcare, including sanitary transportation to prevent spreading of the disease,</li> <li>• applicable procedures of alerting about or reporting breaches or filing complaints by employees,</li> <li>• waste handling, e.g. masks, gloves, disinfectants, and cleaning agents.</li> </ul> <p>During the state of epidemic or the state of epidemic threat, in the scope permitted by law, the training should be done on-line or as self-education. The above principles should be applied if the epidemic status or the state of epidemic emergency is imposed in the territory of the Republic of Poland because of another infectious disease.</p>	