

Annex 2 - Plan of monitoring measures

This Annex to the Environmental Management Plan for the *Odra-Vistula Flood Management Project* – Contract 1A.2 Flood protection of Gryfino, Ognica, and Piasek village on Odra River. Modernization of Marwicki polder stage III - pump station Krajnik, presents monitoring measures used to monitor the influence of the Contract on the environment as well as implementation of mitigating measures set out in Annex 1. Data given in the following tables constitute a list of monitoring measures which, during the term of the Contract, will be implemented by the Contractor and Contract Engineer to Contract 1A.2.

Cost and schedule of implementing the measures should be included in the total Quote Price. The Contractor shall cover all costs of implementing EMP, while the Approved Contract Amount shall include these costs.

Explanations related to tables in Annex 2 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) 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.
- 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) unless otherwise stipulated, the term Engineer's Team in the column Entity shall mean Experts on Environmental Management on Contract Engineer's Team working with appropriate Construction Site Inspectors and other members of the Engineer's team.
- 5) where visual monitoring is referred to, it also covers 1) creation of photo documentation if there is a need to document the occurrence of events or implementation of measures 2) on-site inspection made by the Engineer.
- 6) The Monitoring 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, and World Bank's Operational Policy OP.4.12.

Determining the timing for the such items as: 20, 21, 22, 53, 57, 58, 59, 73, and 98.

The Engineer's acceptance or notification of the Engineer required for 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 conditions regarding the measures to be met before starting the works or at their early stage: 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, and 143.

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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".	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, review of the Contractor's environmental supervision team	One-off and if conditional circumstances are found, with reporting of the circumstances.

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				Engineer's Team	Visual monitoring and / or photo documentation, review of the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
5	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@@.	Site Manager	Visual monitoring and / or photo documentation, review of the Contractor's environmental supervision team, review of the documentation - Construction Site and Works Organization Plan	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the Contractor's environmental supervision team, review of the documentation - Construction Site and Works Organization Plan	On an on-going basis with (monthly) reporting
6	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	Environmental supervision team	Visual monitoring and / or photo documentation, review of the Contractor's environmental supervision team	One-off and if conditional circumstances are found, with reporting of the circumstances.

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			Engineer.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 Works and Site Organization plan must provide for additional space for setting up the barriers.	Site Manager	Visual monitoring and / or photo documentation, review of prepared documentation – Construction and works management plan	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation verification – Construction and works management plan	On an on-going basis with (monthly) reporting
B. Requirements regarding acquisition and compensation						
8	Acquiring real property for permanent occupation	Piasek Ognica Krajnik Gryfino	Compensation for permanent acquisition Acquisitions and compensation for permanent occupation and support for Project Affected Persons – as specified in the Land Acquisition and Resettlement Action Plan.	Site Manager	Visual monitoring and / or photo documentation, documentation review, claims filed and contract documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review, claims filed and contract documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
9	Acquiring real property for temporary occupation	Piasek Ognica Krajnik Gryfino	Compensation for temporary occupation Acquisitions and compensation for temporary occupation before starting the works and / or at their early stage – as specified in the Land Acquisition and Resettlement Action Plan.	Site Manager	Visual monitoring and / or photo documentation, documentation review, claims filed and contract documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review, claims filed and contract documentation	On an on-going basis with (monthly) reporting
C. Requirements related to protection of natural resources						
10	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>	Environmental supervision team	Contractor's confirmation of implementing measures in one of the monthly Contract progress reports, supported by reports from on-site inspections, reports from the environmental supervision team, etc. Checking if required experts formed part of Contractor's team.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the environmental supervision team	On an on-going basis with (monthly) reporting

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11	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).	Environmental supervision team	Contractor's confirmation of implementing measures in the monthly Contract progress report, supported by reports from on-site inspections, reports from the environmental supervision team, etc. Checking if required experts formed part of Contractor's team, and checking progress of works on drafting the expert's opinion.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, documentation verification (application templates, decisions)	On an on-going basis with (monthly) reporting
12	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.	Site Manager, environmental supervision team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team Checking participation and agreements made by required experts.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting

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13	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.	Environmental supervision team	Visual monitoring and / or photo documentation	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
14	Animated nature protection	Piasek Ognica Krajnik Gryfino	Obligations resultant from the obtained derogation permits Obligations include the measures specified in the decisions obtained pursuant to Article 56, items 1 and 2 of the environmental protection act (or a similar regulation in force in the Implementation Period) as recommended in the decisions.	Environmental supervision team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team Checking involvement of the required experts and their input.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
15	Animated nature protection	Piasek Ognica Krajnik	Minimizing the number of killed animals The works should be performed in a manner minimizing killing of animals. Trenches should	Environmental supervision team	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

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		Gryfino	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.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
16	Animated nature protection	Piasek Ognica Krajnik Gryfino	Protection of plants outside the site It is forbidden to damage vegetation outside the Implementation Area.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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 sites are left by these species or to obtain derogation permits for the protected species and eliminate the breeding sites.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
19	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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
20	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 precinct, 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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
21	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	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	If conditional circumstances are found, with reporting of the circumstances.

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			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.	Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
22	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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
23	Landscape protection Soil and land surface protection Water 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 existing protected areas and structures made pursuant to the Environmental Protection Act.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 relevant administrative decision.	Site Manager	Visual monitoring and / or photo documentation, the documentation - application / water law permit decision	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, the documentation - application / water law permit decision	On an on-going basis with (monthly) reporting

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25	Water protection	Piasek Ognica Krajnik	Limiting the scope of draining Limiting the draining of wetlands and marshy areas to a bare minimum.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
26	Water protection	Piasek	Limiting the impact on hydrographic conditions Organization and technical conditions of works related to the project should preclude disturbing the hydrographic conditions.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
27	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.	Site Manager Environmental Supervision Team	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
28	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.	Site Manager Environmental Supervision Team	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
29	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	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

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			manner that prevents its wash-away during high water or rainstorms.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
30	Water protection Animated nature protection	Piasek Ognica Krajnik	Prohibition on 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 water environment.	Site Manager Environmental Supervision Team	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
31	Landscape protection Animated nature 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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team, check of the experts' involvement	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
32	Animated nature protection	Piasek Ognica Gryfino	Requirements for sapling species Planted vegetation species 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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team, check of the experts' involvement	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
D. Requirements related to the handling of earth obtained in the course of works						

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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).	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
34	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
36	Water protection	Piasek	Principles of storing soil Stripped topsoil should be stored behind the embankment.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

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37	Soil and land surface protection	Piasek Ognica Gryfino	Reuse of topsoil and subsoil 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.	Site Manager	Visual monitoring and / or photo documentation, review of documentation of quality tests of excavated soil which is under suspicion of being contaminated.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 subsoil reveal unusual parameters and appearance of the spoil (in terms of its 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 act on waste, 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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
39	Landscape protection Soil and land	Piasek Ognica Gryfino	Prohibition of works converting the landscape It is prohibited to perform any works that	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

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	surface protection		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.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
E. Requirements related to communication in the Implementation area						
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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 vehicles, making the recommended road signage for altered traffic organization, etc.).	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
42	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Control of access road signage Traffic route signage should be regularly controlled.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

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43	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Supplementation of access road signage Missing signage should be immediately restored or supplemented@@.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 organization plans on an on-going basis, depending on the needs and progress of the Works.	Site Manager	Visual monitoring and / or photo documentation, agreed documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, agreed documentation	On an on-going basis with (monthly) reporting
45	Landscape protection Water 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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
46	Air protection Noise 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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
47	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Terms of using access roads to the Implementation Area, including their surroundings Traffic organization and works security plans should be agreed with Road Operators.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, review of documentation related to freight and review of vehicle loads	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, Contractor's written notification	On an on-going basis with (monthly) reporting
F. Management of the Implementation area (construction site, temporary acquisition areas)						

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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 the stormwater to surface and ground water.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
52	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.	Site Manager	Visual monitoring and / or photo documentation, conclusion of a waste removal agreement, review of entity's authorization.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation – waste removal agreement	On an on-going basis with (monthly) reporting
53	Soil and land surface protection	Piasek	Limiting the time for topsoil stripping Topsoil stripping to the extent necessary to implement the 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, items 1 and 2 of the environmental protection 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.	Site Manager	Visual monitoring and / or photo documentation. Review of work schedules. Checking involvement of the required experts and their input.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
54	Landscape protection Soil and land	Piasek Ognica Krajnik	Minimizing conversion of landscape Conversion of temporarily acquired land should be limited to the bare minimum.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	surface protection	Gryfino		Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
55	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
56	Water protection Landscape protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Obligatory cleaning The Implementation Site should be kept clean.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 should update the schedule adjusting the timing of the works and incorporating the outcome of the inspections made by the Contractor's environmental supervision team.	Site Manager	Visual monitoring and / or photo documentation. Review of work schedules. Checking involvement of the required experts and their input.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
58	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 site has been left.	Environmental supervision team	Visual monitoring and / or photo documentation. Review of work schedules. Checking involvement of the required experts and their input.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
59	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.	Environmental supervision team	Visual monitoring and / or photo documentation. Review of work schedules. Checking involvement of the required experts and their input.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
G. Requirements related to waste handling						
60	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
61	Water protection Soil and land surface	Piasek Ognica Krajnik	Waste handling principles Before handing over the hazardous waste to certified entities, store the waste in a manner	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	protection	Gryfino	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.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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).	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.) have to be collected by repair or service contractors.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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 peaty hollows.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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.	Site Manager	Visual monitoring and / or photo documentation, review of entity's authorization to manage waste, review of waste disposal documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation – entity's authorization to manage waste	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring, photo documentation.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
68	Water protection Soil and land surface protection	Piasek Ognica Krajnik Gryfino	Waste handling procedures The Implementation Area should be protected against such "illegal dumps" throughout the Implementation Period.	Site Manager	Visual monitoring, photo documentation.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
H. Requirements related to tree clearance, clearing shrubs and protection of plants not designated for removal						

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
70	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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
71	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.	Environmental supervision team	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team, check of the experts' involvement	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team.	On an on-going basis with (monthly) reporting
72	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	Environmental supervision team	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team, check of the experts' involvement	One-off and if conditional circumstances are found, with reporting of the circumstances.

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			bats in majority of bigger trees. The clearance should be done under chiropterological supervisions.	Engineer's Team	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team.	On an on-going basis with (monthly) reporting
73	Animated nature protection	Piasek Ognica Gryfino	Limiting the clearance time limit The clearance of trees and bushes in the scope necessary of execution of the Contract should be done outside the vegetation period and 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, items 1 and 2 of the environmental protection act (or equivalent regulations in force in the Implementation Period) if the inspection reveals occupancy of the trees by protected species.	Environmental supervision team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team Review of work schedules. Checking involvement of the required experts and their input.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
74	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	Site Manager	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team, check of the experts' involvement	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			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.	Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, review and / or report by the Contractor's environmental supervision team, check of the experts' involvement	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, report by the Contractor's environmental supervision team	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
77	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 execution of the Contract.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, survey report.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, survey report.	On an on-going basis with (monthly) reporting
79	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
80	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 by spreading around impermeable and paint-resistant material.	Site Manager	Visual monitoring and / or photo documentation	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
81	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	Site Manager	Visual monitoring and / or photo documentation, sorbent documentation review, review of sealing documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			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.	Engineer's Team	Visual monitoring and / or photo documentation, sorbent documentation	On an on-going basis with (monthly) reporting
82	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. If the equipment, machines and vehicles are not used, they must be parked in the dedicated places.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
83	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of following the procedures described in specific documents.	On an on-going basis with (monthly) reporting
				Engineer's Team	Review of the documentation the Contractor sends to the Engineer. Direct random checks if the Contractor follows the procedures described in specific documents.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
85	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.	Site Manager, environmental supervision team	Visual monitoring and / or photo documentation. Check of following the procedures described in specific documents.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of documentation sent by the Contractor to the Engineer Direct random checks if the Contractor follows the procedures described in specific documents.	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
87	Water protection Soil and land surface	Piasek Ognica Krajnik	Principles of furnishing the site with toilets The Implementation Area should be furnished with a sufficient number of portable toilets	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	protection Human health and safety protection	Gryfino	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 the place of performing works.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	On an on-going basis with (monthly) reporting	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, equipment documentation	On an on-going basis with (monthly) reporting
89	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
90	Water protection Soil and land surface	Piasek Ognica Krajnik	Equipment used for fueling construction equipment Construction equipment should be fueled	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	protection	Gryfino	using certified mobile or stationary fuel distribution stations or dedicated certified containers.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
91	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
92	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
94	Landscape protection Water protection Soil and land surface 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	Site Manager	Visual monitoring and / or photo documentation, equipment documentation, equipment check by authorized maintenance company	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	Human health and safety protection		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.	Engineer's Team	Visual monitoring and / or photo documentation, equipment documentation	On an on-going basis with (monthly) reporting
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 Subtask@@s works should be found in the Implementation Area.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
96	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
97	Air protection Noise protection	Piasek Ognica Gryfino	Limiting noise emission Simultaneous operation of a larger number of equipment units in one place should be avoided.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
98	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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
J. Requirements for the works after completion of proper works						
99	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).	Environmental supervision team	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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, 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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
K. Requirements related to protection of cultural heritage and tangible property						

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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.	Site Manager	Visual monitoring and / or photo documentation, documentation preparation – inventory of buildings	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review – inventory of buildings	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, documentation preparation – inventory of infrastructure at risk of damage along transportation routes	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review – inventory of infrastructure at risk of damage along transportation routes	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, documentation preparation – inventory of road conditions	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review – inventory of road conditions	On an on-going basis with (monthly) reporting
104	Landscape protection Human health and safety	Piasek Ognica Krajnik Gryfino	Obligation to restore damaged material goods If tangible property is damaged in result of the transport, it should be restored to the original	Site Manager	Visual monitoring and / or photo documentation, damage reports	If conditional circumstances are found, with reporting of the circumstances.

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
	protection		condition as shown in the inventory.	Engineer's Team	Visual monitoring and / or photo documentation, damage reports	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, documentation preparation and checking progress of preparation, e.g. reporting damage, report on remedial actions, repair work completion reports	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review, e.g. reporting damage, report on remedial actions, repair work completion reports	On an on-going basis with (monthly) reporting
106	Human health and safety protection	Piasek Ognica	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.	Site Manager	Visual monitoring and / or photo documentation	If conditional circumstances are found, with reporting of the circumstances.
		Gryfino		Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
107	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	<p>Conducting earthworks under archeological supervision</p> <p>Before starting the works archeological supervision should be hired for supervising the earthworks.</p> <p>The archeological supervision team shall include one or more members with relevant certificates. The composition of the archeological supervision team requires the Engineer's approval.</p>	Site Manager	<p>Contractor's confirmation of implementing measures in the monthly Contract progress report, supported by reports from on-site inspections, reports from the supervision team, etc.</p> <p>Check of including the required expert in the Contractor's team.</p>	On an on-going basis, with regular (monthly) reporting during the earthworks
				Engineer's Team	<p>Review of the documentation the Contractor sends to the Engineer. Current checks of fulfilling due obligations by the experts.</p>	On an on-going basis with (monthly) reporting
108	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	<p>Obligation to obtain permits from Provincial Heritage Monuments Protection Office</p> <p>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.</p>	Site Manager	<p>Checking progress of obtaining relevant permits.</p>	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	<p>Review of the documentation the Contractor sends to the Engineer.</p>	On an on-going basis with (monthly) reporting
109	Protection of monuments and tangible property	Piasek Ognica Krajnik Gryfino	<p>Procedures for monument identification cases</p> <p>If an object likely to be a heritage asset is identified during the construction works or earthworks, the Contractor is obliged to suspend all the works that could damage or destroy the object, the object and its vicinity</p>	Site Manager	<p>Visual monitoring and / or photo documentation, notice to the Engineer. Checks of involving the required specialists and following their recommendations.</p>	If conditional circumstances are found, with reporting of the circumstances.

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			have to be protected using the available means, and the provincial heritage protection office should be notified; 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.	Engineer's Team	Visual monitoring and / or photo documentation, review of the submitted documentation. Checks of involving the required specialists and following their recommendations.	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, notice to the Engineer. Checks of involving the required specialists and following their recommendations.	If conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the submitted documentation. Checks of involving the required specialists and following their recommendations.	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
112	Human health and safety protection	Piasek Ognica Krajnik	Protection of people against increased traffic People should be protected against the increased traffic at the roads used during the	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
		Gryfino	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.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
114	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.	Site Manager	Visual monitoring and / or photo documentation	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
116	Human health and safety protection	Piasek Ognica Krajnik	Visibility of the construction site marking Visibility of the barriers and signs required for safety has to be ensured in daytime and	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
		Gryfino	nighttime.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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.	Site Manager	Check of progress of work on preparing the document. Checking if document transferred to Engineer – HASP	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of prepared documentation – HASP	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of progress of work on preparing the document. Checking if documents transferred to Engineer – quality assurance plan/plans	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Review of prepared documentation – quality assurance plan/plans	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of progress of work on preparing the document. Checking if document transferred to Engineer – evacuation plan	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Review of prepared documentation – evacuation plan	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of progress of work on preparing the document. Checking if document transferred to Engineer – proposed arrangement of construction site and works	One-off and if conditional circumstances are found, with reporting of the circumstances.

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
				Engineer's Team	Visual monitoring and / or photo documentation, review of prepared documentation – proposed arrangement of construction site and works	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of progress of work on preparing the document. Checking if document transferred to Engineer – flood protection plan	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Visual monitoring and / or photo documentation, review of prepared documentation – flood protection plan	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation sent by the Contractor to the Engineer	On an on-going basis with (monthly) reporting
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.	Site Manager	Check of progress of work on preparing the document. Checking if document transferred to Engineer – Waste Management Plan	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Review of prepared documentation – Waste Management Plan	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
128	Human health and safety protection	Piasek Ognica Gryfino	<p>Obligation to carry out an unexploded ordnance survey and ensure continuous unexploded ordnance supervision</p> <p>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.</p> <p>The survey must be done by persons with relevant certificates.</p> <p>It is obligatory to ensure continuous unexploded ordnance supervision of civil works, consisting in on-going monitoring of the area for hazardous object of military origin, and their disposal. The composition of the ordnance disposal supervision team requires the Engineer's approval.</p>	Authorized ordnance disposal unit	<p>Checking involvement of the required experts and their input.</p> <p>Checking if documents transferred to Engineer.</p>	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	<p>Visual monitoring and / or photo documentation, documentation for the measure</p>	On an on-going basis with (monthly) reporting
129	Human health and safety protection	Piasek Ognica Karjnik Gryfino	<p>Procedures for cases of finding unexploded bombs</p> <p>If unexploded bombs or duds are found:</p> <ul style="list-style-type: none"> • work should be stopped immediately, • the area around the place should be evacuated, • bomb disposal supervision and the police should be notified immediately and their instructions should be followed, • the Engineer and the Employer should be notified immediately. <p>It is absolutely forbidden to lift the unexploded bombs or misfires, unearth them, bury, move, throw into water or fire, etc.</p>	Site Manager	<p>Visual monitoring and / or photo documentation.</p> <p>Checking implementation of required procedures.</p> <p>Checking if documents transferred to Engineer</p>	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	<p>Visual monitoring and / or photo documentation, documentation for the measure</p>	On an on-going basis with (monthly) reporting
130	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Obligation to prepare a risk management plan</p> <p>The following document should be prepared and submitted for the Engineer's approval:</p>	Site Manager	<p>Check of progress of work on preparing the document.</p> <p>Checking if document transferred to Engineer.</p>	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			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.	Engineer's Team	Checking of prepared documentation.	On an on-going basis with (monthly) reporting
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 rise awareness of spreading HIV-AIDS diseases. The training will cover also other infectious diseases (such as COVID 19).	Site Manager	Checking compliance of Contractor's activities with respective terms in the Contract.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review – reports from training with list of attendance	On an on-going basis with (monthly) reporting
M. Obligations on the Contractor's personnel involved in implementation of EMP						
132	EMP implementation	Piasek Ognica Krajnik Gryfino	Obligation to appoint a Coordinator for EMP Before starting the works, a person for coordinating and supervising EMP-related measures should be appointed in the Contractor's team. The Coordinator's	Site Manager	Checking presence of EMP Coordinator. Review of the documentation sent by EMP Coordinator to Engineer.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			<p>responsibilities shall include:</p> <ul style="list-style-type: none"> • supervision of implementing EMP measures at subsequent stages of the Contract's performance, • current monitoring of the progress of implementing the measures specified in attachments 1 and 2 to EMP during the Contract's performance, • 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, • cooperation with the remaining part of the Contractor's team for implementation of EMP, • reporting EMP implementation progress, • cooperation with the persons in charge of implementing EMP in the Engineer's and Employer's teams. <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>	Engineer's Team	<p>Checking presence of required person in the Contractor's team</p> <p>Review of documentation sent by the Contractor to Engineer.</p>	On an on-going basis with (monthly) reporting
133	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</p>	Site Manager	<p>Contractor's confirmation of implementing measures in the monthly Contract progress report, supported by reports from on-site inspections, reports from Contractor's environmental supervision team, etc.</p> <p>Check of including the required expert in the Contractor's team.</p>	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			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.	Engineer's Team	Review of the documentation the Contractor sends to the Engineer. Current checks of fulfilling due obligations by the environmental experts in the Contractor's team.	On an on-going basis with (monthly) reporting
134	EMP implementation	Piasek Ognica Krajnik Gryfino	Responsibilities of the environmental supervision team 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.	Environmental supervision team	Confirming implementation of the measures in the Contractor's monthly progress report, supported with site inspection reports, the Contractor's environmental supervision team reports, etc. Check of including the required expert in the Contractor's team.	On an on-going basis with (monthly) reporting
				Engineer's Team	Review of the documentation the Contractor sends to the Engineer. Current checks of fulfilling due obligations by the environmental experts in the Contractor's team.	On an on-going basis with (monthly) reporting
135	EMP implementation	Piasek Ognica Krajnik Gryfino	Responsibilities of the environmental supervision team The environmental supervision exercised by the Contractor's specialists includes: • before starting the construction works, setting a safe work commencement date (especially by excluding the amphibian	Environmental supervision team	Confirming implementation of the measures in the Contractor's monthly progress report, supported with site inspection reports, the Contractor's environmental supervision team reports, etc.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			<p>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.</p> <ul style="list-style-type: none"> • 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, • 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; • permits for works on sections of the power supply line under conversion, • checks of the implemented minimizing measures' efficiency. 	Engineer's Team	Review of the documentation the Contractor sends to the Engineer. Current checks of fulfilling due obligations by the environmental experts in the Contractor's team. Visual monitoring and / or photo documentation.	On an on-going basis with (monthly) reporting
136	EMP implementation	Piasek Ognica Krajnik Gryfino	<p>Responsibilities of the environmental supervision team</p> <p>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</p>	Environmental supervision team	Confirming implementation of the measures in the Contractor's monthly progress report, supported with site inspection reports, the Contractor's environmental supervision team reports, etc.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			provide the Engineer with monthly, quarterly, and final reports.	Engineer's Team	Review of the documentation the Contractor sends to the Engineer. Current checks of fulfilling due obligations by the environmental experts in the Contractor's team. Visual monitoring and / or photo documentation.	On an on-going basis with (monthly) reporting
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	Checks of holding the meetings and reviews of the agendas for EMP issues at Site Meetings. Sending conclusions to the Site Manager.	On an on-going basis with (monthly) reporting
				Engineer's Team	Checks of holding the meetings and reviews of the agendas for EMP issues at Site Meetings. Sending conclusions to the Site Manager. Review of the documentation the Contractor sends to the Engineer.	On an on-going basis with (monthly) reporting
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.	Site Manager	Checking if all required persons presently employed under the Contract underwent training and sending conclusions to Site Manager.	One-off and if conditional circumstances are found, with reporting of the circumstances.
				Engineer's Team	Report from training with list of attendance. Ongoing checks if EMP conditions are known by Contractor's current personnel	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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 The Contractor is obliged to ensure such conditions for execution 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 execution, and any third parties. The Engineer should be immediately notified of any reported or suspected cases of sexual harassment and bullying.	Site Manager	Visual monitoring and / or photo documentation, review of the documentation from the training, including attendance list, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation from the training, including attendance list, survey.	On an on-going basis with (monthly) reporting
140	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to report bullying and sexual harassment incidents The Engineer should be immediately notified of any reported or suspected cases of sexual harassment and bullying.	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, documentation review, interview for	On an on-going basis with (monthly) reporting
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.	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
142	Human health and safety protection	Piasek Ognica Krajnik	Preparing and implementing procedures for current reporting of ES problems Within 30 days after commencement of the	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
		Gryfino	Contract the Engineer shall prepare and send to the Contractor a set of procedures for current reporting of: <ul style="list-style-type: none"> • extraordinary risks (i.e. emergencies specified in chapter 5.12 of EMP); • accidents and near misses; • sexual harassment and bullying incidents; • employee's complaints regarding remuneration and work conditions. The Contractor shall immediately notify the Engineer of any issues related to the above, as specified in the applicable contract procedures.	Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
143	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Obligation to employ an OHS specialist An OHS specialist should be employed. The specialist should have qualifications and professional experience as set out in Polish labor law regulations. The specialist should be obliged to ensure observance of the OHS procedures specified in the Contract and in applicable domestic laws.	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
144	Human health and safety protection	Piasek Ognica Krajnik Gryfino	Educational measures regarding OHS principles and regulations OHS supervision shall train the Contractor's personnel on OHS principles and regulations in force on the site and shall implement an awareness rising campaign in the respect. The measures will be conducted throughout the performance of the construction works, at least every 6 months. They will have the form of information, educational and awareness-raising OHS campaigns with particular focus on the current stage of the Contract.	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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 performance of the works) that prevent bullying or sexual harassment incidents toward persons involved in the Contract's performance (e.g. the personnel of the Contractor, Engineer, Investor, PCO, subcontractors, suppliers, other), 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>	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
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>	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
147	Human health and safety protection	Piasek Ognica Krajnik Gryfino	<p>Terms & 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>	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
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>	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
O. Conduct guidelines for the epidemic status or the state of epidemic emergency during the works						
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: 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</p>	Site Manager	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting
				Engineer's Team	Visual monitoring and / or photo documentation, review of the documentation, survey.	On an on-going basis with (monthly) reporting

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			<p>issued pursuant to Article 46a of the act dated 5 December 2008 on Preventing and Combating Infections and Infectious Diseases among Humans (Polish Journal of Laws 2019, item 1239, as amended) on imposing specific limitations, rules, and bans due to the epidemic status,</p> <p>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,</p> <p>c) implement relevant recommendations from the World Bank and sanitary authorities in the territory of Poland,</p> <p>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, Works and Site Organization Plan, ES Management Strategy and Implementation Plans,</p> <p>e) organized an information campaign (e.g. by placing posters and instructions at the Site) regarding symptoms and signs of infection, spreading of the virus, preventive measures (including regular washing of hands)</p> <p>f) organize a training for blue-collar workers, the Contractor's personnel at least on:</p> <ul style="list-style-type: none"> • updated procedures and documents, • symptoms and signs of COVID-19 (or another contagious disease related to 			

Item	Issue	Location	Mitigating measure	Responsibility of	Monitoring procedure	Monitoring period and frequency
			<p>the introduction of the state of epidemic / epidemic threat), including self monitoring of symptoms, virus spread, available protective equipment,</p> <ul style="list-style-type: none"> • procedures for cases of noticing sickness symptoms, • 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, • applicable procedures of alerting about or reporting breaches or filing complaints by employees, • waste handling, e.g. masks, gloves, disinfectants, and cleaning agents. <p>During the state of epidemic or the state of epidemic threat, in the scope permitted by law, the training should be conducted 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>			