

Appendix 3 - Plan of execution and monitoring of environmental compensation

In this Appendix to the Environmental Management Plan for the Odra - Vistula Flood Management Project, *Works Contract 1B.7 - WFS Widawa* – the rebuilding of the flood management system of the communes and municipalities Czernica, Długoleka, Wisznia Mała and Wrocław, measures are presented compensating an adverse environmental impact, being the guidelines for the Contractor under the above-mentioned Contract.

Explanations for the table in Appendix no. 3 of the EMP:

- unless otherwise stated in a particular case, the term **Task implementation area** means the area of performing any preparatory works, essential works (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed during the Defects Notification Period, together with the lands subject to temporary acquisition;
- unless otherwise stated in a particular case, the term **Task implementation period** means the duration of any preparatory works, essential works execution (including the Permanent Works and Temporary Works), and any works related to the removal of defects and faults or execution of the unfinished works specified in the Takeover Certificate or revealed in the Defects Notification Period;
- unless otherwise stated in a particular case, the term **Contractor's team** in column Responsible entity means personally the EMP Coordinator in the Contractor's staff (referred to in item 89 in Appendix no. 1 to the EMP), cooperating with the Site Manager and the rest of the Contractor's Staff (including, among others, a team of environmental experts, a team of archaeological experts, sapper supervision and OHS supervision);
- unless otherwise stated in a particular case, the term **Engineer's team** in column Responsible entity means personally the Environmental Management Expert in the Engineer's staff, cooperating with relevant Supervising Inspectors and the rest of the Engineer's staff.

NOTE: In places where it was not possible to avoid negative impacts, according to Polish legislation, compensation measures will be implemented in accordance with art. 75 of the Environmental Protection Law. The compensation measures are not compensations at the European level.

A) REQUIREMENTS RELATED TO EXECUTION OF ENVIRONMENTAL COMPENSATING MEASURES

No.	Issue	Location	Compensating measure	Responsible entity
A1.	General conditions concerning nature protection	Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława).	<p>Restoration of patches of the riparian forest habitat 91F0</p> <p>On the area of 7.2 ha restore the patches of the natural habitat - Oak, elm, ash riverine forests (<i>Ficario-Ulmetum</i>) - code 91F0, through executing plantings appropriate (typical) for this habitat of tree and bush species.</p> <p>The following rules should be observed when executing the plantings:</p> <ul style="list-style-type: none"> a) the basic principles of forest cultivation should be maintained within the entire cycle of executing the plantings; b) planting material in accordance with seed regionalisation (coming from the region within which plantings are to be performed) and nature-forest regionalisation should be used for plantings; c) appropriate maintenance procedures, carried out within the Task implementation under the supervision of the expert phytosociologist/Contractor's environmental team, should be made for the planted crops; d) plantings should be executed between September and October; e) detailed solutions for execution and maintenance of plantings should be carried out after consultation with the phytosociology expert of the Contractor's environmental team; f) for execution of plantings, planting framing shall be used for trees with the dimension of 3x3 m, for bushes with dimension of 2x2 m, g) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A2.	General rules concerning nature protection	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długoleka)	<p>Conditions of environmental compensation for tree removal</p> <p>For the removal of about 1850 trees, including 50 trees with monumental dimensions or close to monumental dimensions, perform compensation plantings according to the following rules:</p> <ul style="list-style-type: none"> a) plant 5550 trees of native species: Oak, Lime, Sycamore, Norway Maple, Field Maple, Field Elm, White Willow, Black Poplar, White Poplar; b) execute plantings in the form of lines of trees, alleys or groups of trees; c) for execution of plantings, planting framing shall be used for trees with the dimension of 3x3 m; d) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; e) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A3.	General conditions concerning nature protection	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długoleka)	<p>Conditions of environmental compensation for tree removal</p> <p>For the removal of about 1850 trees, including 50 trees with monumental dimensions or close to monumental dimensions, perform compensation plantings according to the following rules:</p> <ul style="list-style-type: none"> a) plant 5550 trees of native species: Oak, Lime, Sycamore, Norway Maple, Field Maple, Field Elm, White Willow, Black Poplar, White Poplar; b) execute plantings in the form of lines of trees, alleys or groups of trees; c) for execution of plantings, planting framing shall be used for trees with the dimension of 3x3 m; d) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; e) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A4.	General conditions concerning nature protection	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długoleka)	<p><i>Species composition and parameters of the planting stock used for compensation of tree cutting</i></p> <p>For the planting of trees as part of the nature compensation for tree cutting, observe the following guidelines for species composition and parameters of the planting stock:</p> <ul style="list-style-type: none"> • Pedunculate Oak – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Little leaf Lime – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Sycamore – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Norway Maple – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Field Maple – two-years-old transplant seedlings, number of seedlings - 616 pcs.; • Field Elm – two-years-old transplant seedlings, number of seedlings - 616 pcs.; • White Willow – four-years-old transplant seedlings, number of seedlings - 616 pcs.; • Black Poplar – four-years-old transplant seedlings, number of seedlings - 617 pcs.; • White Polar – four-years-old transplant seedlings, number of seedlings - 617 pcs. 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A5.	General conditions concerning nature protection	Plots nos.: 180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).	<p>Conditions of environmental compensation for bush removal</p> <p>For the removal of bushes on the area of about 0.95 ha - execute compensation plantings of native species of bushes on the area of 2.85 ha, according to the following rules:</p> <ul style="list-style-type: none"> a) use the following species of bushes for plantings: Common Hazel, Phragmites, Alder Buckthorn, Black Honeysuckle, Bird Cherry, Goat Willow, Purple Osier, Guelder Rose, Single-Seeded Hawthorn and Midland Hawthorn, Blackthorn, Plum; b) execute plantings in the form of lines or groups of bushes, e.g. in the ecotone zone of compact complexes of forests; c) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; d) for execution of plantings, planting framing shall be used for bushes with the dimension of 2x2 m; e) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A6.	General conditions concerning nature protection	Plots nos.: 180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).	<p><i>Species composition and parameters of the planting stock used for compensation of bush cutting</i></p> <p>For the planting of bushes as part of the nature compensation for bush cutting, observe the following guidelines for species composition and parameters of the planting stock:</p> <ul style="list-style-type: none"> • Common Hazel – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Phragmites – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Alder Buckthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Black Honeysuckle, Bird Cherry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Goat Willow – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Purple Osier – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Guelder Rose – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Single-Seeded Hawthorn and Midland Hawthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Blackthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A7.	General conditions concerning nature protection	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława);</p> <p>180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).</p>	<p>Guidelines for execution of tree and bush plantings</p> <p>The trees and bushes, mentioned in item 1-6 of App. no. 3 to EMP, shall be planted subject to the following rules:</p> <ul style="list-style-type: none"> a) the delivered seedlings of trees and bushes should be in accordance with the current standards relating to the quality of nursery stock, shall have labels on which the following is given: Latin and Polish species name, form designation, trunk height and standard number according to which seedlings have been produced; b) seedlings of trees and bushes should be properly formed, with maintained exterior typical for the strain and be characterised by the following properties: <ul style="list-style-type: none"> • the top bud of the guide should be clearly formed; • the increment of the last year should extend the guide clearly and straight; • root system should be dense and correctly developed, a scaffold root • should have numerous minor roots; • for plants settled with a root mass, root mass should be formed correctly; • trees and shrubs' sprouts should not be trimmed; • side sprouts of the tree should be evenly spaced; • the guide should be straight; • scars on the guide should be well overgrown, 4 incompletely overgrown ones are allowed; c) inadmissible defects of tree and bush seedlings: <ul style="list-style-type: none"> • strong mechanical plant damage; • traces of pest feeding; • signs of diseases; • fading and ruffling of the cortex of roots or overground parts; • cortex necrosis and cracking; • the top bud of the guide damaged; • damaging or drying up of the root mass. d) the Contractor is required to present a certificate issued by a nursery delivering the plants confirming compliance of the progress of plant production process with the Employer's requirements (transplanting). The Contractor is responsible for meeting the quantity and quality requirements of the plant stock. The Contractor is also required to present samples of nursery stock to the Employer and to agree upon, each time, the selection of materials with the Investor's Supervision Inspector; e) seedlings of trees and bushes shall be protected from damage in transport (damage of root system or root mass and crown). Plants with the root mass 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A8.	General conditions concerning nature protection	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława);</p> <p>180/24 (precinct of Siedlec, Municipality of Długołęka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).</p>	<p>Execution of supplementary tree and bush plantings in environmental compensation areas</p> <p>If the survival rate for the tree and bush plantings, mentioned in item no. A1 - A6 of App. No. 3 of EMP, smaller than 85 % is found (identified according to the rule described in item B12 of the monitoring part of App. No. 3 of EMP), it is necessary to execute appropriate supplementary plantings.</p> <p>Before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval.</p>	Contractor
A9.	General conditions concerning nature protection	Plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica).	<p>Compensation conditions of habitats of amphibians</p> <p>For the destruction of one water pond and for partial destruction of two reservoirs being the breeding site of amphibians - restore breeding habitats of amphibians as per the following rules:</p> <ol style="list-style-type: none"> a) on the inter-embankment area of the Widawa, within limits of plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica), execute 6 water reservoirs according to the design attached to Bidding Documents, formed in a way creating breeding habitats for species of amphibians; b) the total water surface area of the reservoirs shall not be less than 0.6 ha; c) the actions should be agreed in advance with an expert herpetologist of the Contractor's environmental team and performed with his/her participation; d) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	Contractor

No.	Issue	Location	Compensating measure	Responsible entity
A10.	General conditions concerning nature protection	The bed of Młynówka Kiełczowska within the boundaries of the Task implementation area.	<p>Environmental compensation conditions of breeding sites of Grey Wagtail</p> <p>For the destruction of the habitat of Grey Wagtail <i>Motacilla cinerea</i> - perform the following compensating measures within the bed of Młynówka Kiełczowska:</p> <ul style="list-style-type: none"> a) install two breeding boxes appropriate for the species; b) the type of boxes and the location of boxes to be installed is to be consulted in advance with an expert chiropterologist of the Contractor's environmental team and performed with his/her participation; c) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; d) before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval. 	Contractor
A11.	General conditions concerning nature protection	Task implementation area and adjacent forest areas	<p>Environmental compensation conditions of shelters of bats</p> <p>The following compensating measures shall be carried out for the destruction of shelters of bats:</p> <ul style="list-style-type: none"> a) install two boxes for bats within the area of the road bridges on Widawa the flow of which is improved under the Task (bridges along Wilczycka Street and Rieczna Street); b) install 40 boxes for bats in the trees situated within the area of or in vicinity of the Task implementation area; c) the type of boxes and the location of boxes to be installed is to be consulted with an expert chiropterologist of the Contractor's environmental team; d) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; e) works for hanging the boxes are to be performed under supervision of an expert chiropterologist of the Contractor's environmental team; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Contractor

B) REQUIREMENTS RELATED TO MONITORING OF THE EXECUTION OF ENVIRONMENTAL COMPENSATION

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B1.	General conditions concerning nature protection	<p>Restoration of patches of the riparian forest habitat 91F0</p> <p>On the area of 7.2 ha restore the patches of the natural habitat - Oak, elm, ash riverine forests (<i>Ficario-Ulmetum</i>) - code 91F0, through executing plantings appropriate (typical) for this habitat of tree and bush species.</p> <p>The following rules shall be observed when executing the plantings:</p> <ul style="list-style-type: none"> a) the basic principles of forest cultivation should be maintained within the entire cycle of executing the plantings; b) planting material in accordance with seed regionalisation (coming from the region within which plantings are to be performed) and nature-forest regionalisation should be used for plantings; c) appropriate maintenance procedures, carried out within the Task implementation under the supervision of the expert phytosociologist/Contractor's environmental team, should be made for the planted crops; d) plantings should be executed 	Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława).	Control of the correctness of the implementation of activities by the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		<p>between September and October;</p> <p>e) detailed solutions for execution and maintenance of plantings should be carried out after consultation with the phytosociology expert of the Contractor's environmental team;</p> <p>f) for execution of plantings, planting framing shall be used for trees with the dimension of 3x3 m, for bushes with dimension of 2x2 m,</p> <p>g) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval.</p> <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>		<p>Control of participation of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Engineer's team</p>
B2.	General conditions concerning nature protection	<p><i>Species composition and parameters of the planting stock used for the habitat of riparian forest 91F0</i></p> <p>For the planting of trees and bushes as part of compensation of the natural habitat 91E0, use the following guidelines for species composition and parameters of the planting stock:</p> <p>a) basic forest species:</p> <ul style="list-style-type: none"> • Pedunculate Oak – single mixing, 2-3-years-old transplant seedlings, share in tree stand of 	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława).</p>	<p>Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Contractor's team</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		<p>approx. 35%, number of seedlings - 2900 pcs.;</p> <ul style="list-style-type: none"> • European Ash – single mixing, 2-4-years-old transplant seedlings, share in tree stand of approx. 15%, number of seedlings - 1250 pcs.; • European White Elm – group mixing, 3-years-old transplant seedlings, share in tree stand of approx. 15%, number of seedlings - 1250 pcs.; • Field Elm – group mixing, 3-years-old transplant seedlings, share in tree stand of approx. 10%, number of seedlings - 830 pcs.; • Field Maple – group mixing, 3-years-old transplant seedlings, share in tree stand of approx. 10%, number of seedlings - 830 pcs.; <p>b) enriching forest species:</p> <ul style="list-style-type: none"> • Little leaf Lime – group mixing, 2-years-old transplant seedlings, share in tree stand of approx. 5%, number of seedlings - 415 pcs.; • Black Alder – group mixing, 2-years-old transplant seedlings, share in tree stand of approx. 3%, number of seedlings - 250 pcs.; • Common Hornbeam – group mixing, 2-4-years-old transplant seedlings, share in tree stand of approx. 3%, number of seedlings - 250 pcs.; <p>c) species forming understory of tree stand:</p> <ul style="list-style-type: none"> • Common Dogwood – group mixing, 4-years-old transplant seedlings or older, share in tree stand of approx. 5%, number of seedlings - 465 pcs.; • Common Buckthorn – group mixing, 4-years-old 		<p>Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Engineer's team</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B3.	General conditions concerning nature protection	<p>Conditions of environmental compensation for tree removal</p> <p>For the removal of about 1850 trees, including 50 trees with monumental dimensions or close to monumental dimensions, perform compensation plantings according to the following rules:</p> <ul style="list-style-type: none"> a) plant 5550 trees of native species: Oak, Lime, Sycamore, Norway Maple, Field Maple, Field Elm, White Willow, Black Poplar, White Poplar; b) execute plantings in the form of lines of trees, alleys or groups of trees; c) for execution of plantings, planting framing shall be used for trees with the dimension of 3x3 m; d) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; e) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długoleka)	<p>Control of the correctness of the implementation of activities by the required experts.</p> <p>Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings..</p>	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				<p>Control of presence of the required experts.</p> <p>Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B4.	General conditions concerning nature protection	<p><i>Species composition and parameters of the planting stock used for compensation of tree cutting</i></p> <p>For the planting of trees as part of the nature compensation for tree cutting, observe the following guidelines for species composition and parameters of the planting stock:</p> <ul style="list-style-type: none"> • Pedunculate Oak – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Little leaf Lime – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Sycamore – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Norway Maple – two-years-old transplant seedlings, number of seedlings - 617 pcs.; • Field Maple – two-years-old transplant seedlings, number of seedlings - 616 pcs.; • Field Elm – two-years-old transplant seedlings, number of seedlings - 616 pcs.; • White Willow – four-years-old transplant seedlings or older, number of seedlings - 616 pcs.; • Black Poplar – four-years-old transplant seedlings or older, number of seedlings - 617 pcs.; • White Polar – four-years-old transplant seedlings or older, number of seedlings - 617 pcs. 	Plot no.: 180/24 (precinct of Siedlec, Municipality of Długoleka)	Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B5.	General conditions concerning nature protection	<p><i>Conditions of environmental compensation for bush removal</i></p> <p>For the removal of bushes on the area of about 0.95 ha - execute compensation plantings of native species of bushes on the area of 2.85 ha, according to the following rules:</p> <p>a) use the following species of bushes for plantings: Common Hazel, Phragmites, Alder Buckthorn, Black Honeysuckle, Bird Cherry, Goat Willow, Purple Osier, Guelder Rose, Single-Seeded Hawthorn and Midland Hawthorn,</p>	<p>Plots nos.: 180/24 (precinct of Siedlec, Municipality of Długoleka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).</p>	<p>Control of the correctness of the implementation of activities by the required experts.</p> <p>Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Contractor's team.</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		<p>Blackthorn, Plum;</p> <p>b) execute plantings in the form of lines or groups of bushes, e.g. in the ecotone zone of compact complexes of forests;</p> <p>c) plantings should be executed between September and October under the supervision of the expert phytosociologist of the Contractor's environmental team; for execution of plantings, planting framing shall be used for bushes with the dimension of 2x2 m;</p> <p>d) before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval.</p> <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>		<p>Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Engineer's team</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B6.	General conditions concerning nature protection	<p><i>Species composition and parameters of the planting stock used for compensation of tree cutting</i></p> <p>For the planting of bushes as part of the nature compensation for bush cutting, observe the following guidelines for species composition and parameters of the planting stock:</p> <ul style="list-style-type: none"> • Common Hazel – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Phragmites – a seedling with at least 3 	Plots nos.: 180/24 (precinct of Siedlec, Municipality of Długoleka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).	<p>Control of the correctness of the implementation of activities by the required experts.</p> <p>Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP conditions. Verification of documentation handed over from the Contractor to the Engineer.</p>	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team.

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		<p>scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.;</p> <ul style="list-style-type: none"> • Alder Buckthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Black Honeysuckle, Bird Cherry – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Goat Willow – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Purple Osier – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Guelder Rose – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; • Single-Seeded Hawthorn and Midland Hawthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.; <p>Blackthorn – a seedling with at least 3 scaffold sprouts formed approx. 10 cm over the mass, number of seedlings - 350 pcs.;</p>		<p>Control of presence of the required experts. Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of compensation plantings.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Engineer's team</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B7.	General conditions concerning nature protection	<p>Execution of supplementary tree and bush plantings in environmental compensation areas</p> <p>If the survival rate for tree and bush plantings referred to in item No. A1-A6 Annex 3 to EMP smaller than 85 % is found (determined in accordance with the rules described in item B12 of the monitoring part of Annex 3 to EMP), it is necessary to execute appropriate supplementary plantings.</p> <p>Before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval.</p>	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława);</p> <p>180/24 (precinct of Siedlec, Municipality of Długoleka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).</p>	Verification of documentation handed over from the Contractor to the Engineer.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				Verification of documentation handed over from the Contractor to the Engineer.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team
B8.	General conditions concerning nature protection	<p>Guidelines for execution of tree and bush plantings</p> <p>The tree and bush plantings, mentioned in item A1-A6 of App. no. 3 to EMP, shall be planted subject to the following rules:</p> <p>a) the delivered seedlings of trees and bushes should be in accordance with the current standards relating to the quality of nursery stock, shall have labels on which the following is given: Latin and Polish species name,</p>	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława);</p> <p>180/24 (precinct of Siedlec, Municipality of Długoleka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730</p>	Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
		<p>form designation, trunk height and standard number according to which seedlings have been produced;</p> <p>b) seedlings of trees and bushes should be properly formed, with maintained exterior typical for the strain and be characterised by the following properties:</p> <ul style="list-style-type: none"> • the top bud of the guide should be clearly formed; • the increment of the last year should extend the guide clearly and straight; • root system should be dense and correctly developed, a scaffold root • should have numerous minor roots; • for plants settled with a root mass, root mass should be formed correctly; • trees and shrubs' sprouts should not be trimmed; • side sprouts of the tree should be evenly spaced; • the guide should be straight; • scars on the guide should be well overgrown, 4 incompletely overgrown ones are allowed; <p>c) inadmissible defects of tree and bush seedlings:</p> <ul style="list-style-type: none"> • strong mechanical plant damage; • traces of pest feeding; • signs of diseases; • fading and ruffling of the cortex of roots or overground parts; • cortex necrosis and cracking; • the top bud of the guide damaged; • damaging or drying up of the root mass. <p>d) the Contractor is required to</p>	<p>(precinct of Smolna, Municipality of Oleśnica).</p>	<p>Verification of documentation handed over from the Contractor to the Engineer in scope of planting stock and execution of plantings.</p> <p>Quality control of nursery stock.</p>	<p>During the Task implementation period, on a regular basis, at least once a week.</p>	<p>Engineer's team</p>

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B9.	General conditions concerning nature protection	<p>Compensation conditions of habitats of amphibians</p> <p>For the destruction of one water pond and for partial destruction of two reservoirs being the breeding site of amphibians - restore breeding habitats of amphibians as per the following rules:</p> <ul style="list-style-type: none"> a) on the inter-embankment area of the Widawa, within limits of plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica), execute 6 water reservoirs according to the design attached to Bidding Documents, formed in a way creating breeding habitats for species of amphibians; b) the total water surface area of the reservoirs shall not be less than 0.6 ha; c) the actions should be agreed in advance with an expert herpetologist of the Contractor's environmental team and performed with his/her participation; d) before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval. 	Plot no. 330 (precinct of Dobrzykowice, Municipality of Czernica).	Verification of documentation for nature compensation of habitats of amphibians and correct fulfilment of measures by the required experts . Visual monitoring, photo documentation.	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				Visual monitoring, photo documentation. Verification of documentation handed over from the Contractor to the Engineer in scope of nature compensation of habitats of amphibians. Control of arrangements of the required expert.	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B10.	General conditions concerning nature protection	<p>Environmental compensation conditions of breeding sites of Grey Wagtail</p> <p>For the destruction of the habitat of Grey Wagtail <i>Motacilla cinerea</i> - perform the following compensating measures within the bed of Młynówka Kielczowska:</p> <ul style="list-style-type: none"> a) install two breeding boxes appropriate for the species; b) the type of boxes and the location of boxes to be installed is to be consulted in advance with an expert chiropterologist of the Contractor's environmental team and performed with his/her participation; c) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; d) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. 	The bed of Młynówka Kielczowska within the boundaries of the Task implementation area.	<p>Verification of documentation for nature compensation of breeding sites of habitats of Grey Wagtail and control of correct performance of works by the required experts.</p> <p>Visual monitoring, photo documentation.</p>	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				<p>Visual monitoring, photo documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer in scope of nature compensation conditions of breeding sites of Grey Wagtail.</p> <p>Control of participation and arrangements of the required expert.</p>	During the Task implementation period, on a regular basis, at least once a week.	

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B11.	General conditions concerning nature protection	<p><i>Environmental compensation conditions of shelters of bats</i></p> <p>The following compensating measures shall be carried out for the destruction of shelters of bats:</p> <ul style="list-style-type: none"> a) install two boxes for bats within the area of the road bridges on Widawa the flow of which is improved under the Task (bridges along Wilczycka Street and Rieczna Street); b) install 40 boxes for bats in the trees situated within the area of or in vicinity of the Task implementation area; c) the type of boxes and the location of boxes to be installed is to be consulted with an expert chiropterologist of the Contractor's environmental team; d) prepare a map with marking the location of boxes and a list of their locations with GPS coordinates; e) works for hanging the boxes are to be performed under supervision of an expert chiropterologist of the Contractor's environmental team; f) before starting to perform the conditions defined in this item of EMP, a <i>Quality Assurance Plan</i> for the above-mentioned works will be presented for the Engineer's approval. <p>The actions related to the execution of plantings referred to in this item of EMP shall be started as soon as possible to enable their timely implementation.</p>	Task implementation area and adjacent forest areas	<p>Verification of documentation for nature compensation of shelters of bats and control of correct performance of works by the required experts.</p> <p>Visual monitoring, photo documentation.</p>	During the Task implementation period, on a regular basis, at least once a week.	Contractor's team
				<p>Visual monitoring, photo documentation.</p> <p>Verification of documentation handed over from the Contractor to the Engineer for environmental compensation of shelters of bats.</p> <p>Control of participation and of arrangements of the required expert.</p>	During the Task implementation period, on a regular basis, at least once a week.	Engineer's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
B12.	General conditions concerning nature protection	<p><i>Survival rate assessment of compensation plantings</i></p> <p>Perform a survival rate assessment after 9 months from executing the plantings described in item A1-A6 of Appendix no. of EMP.</p>	<p>Plots nos.: 1824/194, 1826/195, 1830/198, 1849/211, 2087/212, 2010/152 (precinct of Bystrzyca, Municipality of Oława);</p> <p>180/24 (precinct of Siedlec, Municipality of Długoleka), 232/2, 233/4 (precinct of Borowa, Municipality of Oleśnica), 730 (precinct of Smolna, Municipality of Oleśnica).</p>	<p>Monitoring will consist of assessing the condition of plantings made, of identifying the need and scope of any remedial measures and of performing such measures (if considered necessary).</p> <p>Monitoring shall be carried out on all the areas where plantings were made.</p> <p>Monitoring should be carried out by an expert phytosociologist.</p>	<p>Once per a vegetation season after 9 months from executing the plantings.</p> <p>In case any supplementary plantings are necessary, on a regular basis (at least once a week) with reporting once a month.</p>	Contractor's team

No.	Issue	Subject of monitoring	Place of monitoring	Strategy of monitoring	Time and frequency of monitoring	Responsible entity
				<p>Control of presence of the required experts. Visual monitoring, photo documentation. Current inspection of fulfilment of the EMP condition. Verification of documentation handed over from the Contractor to the Engineer.</p>	<p>Once per a vegetation season after 9 months from executing the plantings. In case any supplementary plantings are necessary, on a regular basis (at least once a week) with reporting once a month.</p>	