



FINAL REPORT
ON IMPLEMENTATION OF MEASURES
LISTED IN THE ENVIRONMENTAL MANAGEMENT PLAN

For the period: 9 January – 3 October 2020

ODRA-VISTULA FLOOD MANAGEMENT PROJECT

Subcomponent OVFMP	3D: Passive and Active Protection in San basin
Contract Task	3D.1 San Programme. Passive Protection in San basin
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Rzeszów 17B. Hanasiewicza Street, 35-103 Rzeszów
Project Implementation Office (PIO)	State Water Holding Polish Waters Regional Water Management Authority in Rzeszów 17B. Hanasiewicza Street, 35-103 Rzeszów
Contractor	Transpol Lider Sp. z o.o. Sp. k. Łojewo 70, 88-101 Inowrocław
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TABLE OF CONTENTS

INTRODUCTION	4
1 BASIC INFORMATION ABOUT THE CONTRACT 3D.1	5
1.1 GENERAL DATA	5
1.2 BASIC TERMS OF THE CONTRACT.....	6
2 ENVIRONMENTAL, SOCIAL, HEALTH & SAFETY ACTIVITIES AND EVENTS	7
2.1 CONTRACTOR’S ACTIVITIES	7
2.2 ENGINEER’S/CONSULTANT’S ACTIVITIES	7
2.3 INVESTOR’S ACTIVITIES	7
2.4 OTHER ACTIVITIES.....	7
2.5 EXTRAORDINARY EVENTS, THREATS, DISASTERS	7
2.6 ACCIDENTS	7
2.7 ACTIVITIES RELATED TO PROVIDING SALARY AND EMPLOYMENT TERMS OF THE CONTRACTOR’S PERSONNEL.....	8
2.8 ACTIVITIES RELATED TO COUNTERACTING SEXUAL HARASSMENT AND MOBBING	8
3 MITIGATION AND MONITORING MEASURES LISTED IN THE EMP FOR THE CONTRACT 3D.1	9
3.1 REQUIREMENTS LISTED IN THE APPENDIX 1 TO THE EMP	9
3.2 REQUIREMENTS LISTED IN THE APPENDIX 2 TO THE EMP	10
4 SUPERVISION SYSTEM ON THE IMPLEMENTATION OF MEASURES LISTED IN THE EMP FOR THE CONTRACT 3D.1	11
4.1 THE CONTRACTOR FOR CONSTRUCTION WORKS	11
4.2 THE ENGINEER	11
4.3 PROJECT IMPLEMENTATION UNIT (PIU)	12
4.4 PROJECT IMPLEMENTATION OFFICE (PIO)	12
5 REPORT ON IMPLEMENTATION OF MEASURES LISTED IN THE EMP FOR CONTRACT 3D.1	13
5.1 STATUS OF IMPLEMENTATION OF MITIGATION MEASURES FROM APPENDIX 1 TO THE EMP.....	13
5.1.1 Contractor’s Measures	13
5.1.2 Engineer’s/Consultant’s Measures	14
5.1.3 Investor’s Measures.....	14
5.1.4 Conclusions from the implementation of mitigation measures.....	14
5.2 STATUS OF IMPLEMENTATION OF MONITORING MEASURES FROM APPENDIX 2 TO THE EMP.....	19
5.2.1 Contractor’s Measures	19
5.2.2 Engineer’s/Consultant’s Measures	20
5.2.3 Investor’s Measures.....	20
5.2.4 Conclusions from the implementation of monitoring measures	21
6 SUMMARY	22
7 SOURCE MATERIALS	23
8 LIST OF APPENDICES	24

INTRODUCTION

This study is the final report of the Contract's Engineer for the period **January 2020 – October 2020**. It presents a report on the implementation of measures listed in the Environmental Management Plan (EMP) for the task: „San Programme. Passive Protection in San Basin” constituting a part of Subcomponent 3D under the Odra and Vistula Flood Management Project (OVFMP).

The Report describes ESHS-related (environment, social, health & safety) activities and events on the construction site and in its impact area. The report covers the period from the date of commencement of construction works, **i.e. from January 9, 2020**, to the date of completion of works covered by the Contract 3D.1, which took place **on October 3, 2020**. The Final Acceptance Protocol was signed **on December 18, 2020**.

For this Contract, the following have been presented:

- status of delivery of ESHS-related issues (proceedings and decisions obtained during the reporting period, inspections, controls, extraordinary events, failures, and disasters, etc.);
- status of implementation of mitigation measures listed in Appendix 1 of the EMP,
- status of implementation of monitoring measures listed in Appendix 2 of the EMP,
- summary.

1 BASIC INFORMATION ABOUT THE CONTRACT 3D.1

1.1 GENERAL DATA

The Work Contract 3D.1 *San Programme. Passive Protection in San basin* is a part of Subcomponent 3D. Under this contract, the flood embankment of the San River was expanded and modernized at km 0+000 - 4+445 (river estuary section) in order to increase safety of the areas within boundaries of the Wrzawy village in the Gorzyce commune (Tarnobrzeg powiat).

The Contract with the OVFMP 3D.1 Contractor was signed on December 31, 2019. On January 9, 2020 the Engineer issued the Instruction to Commence the Works (so-called Commencement Date). The Contractor began works on site immediately.

Name of the Contract

Contract 3D.1: San Programme. Passive Protection in San Basin

The Contractor

Transpol Lider Sp. z o.o. Sp. k. Łojewo 70, 88-101 Inowrocław

Task list

Within the scope of the project covered by the Works Contract 3D.1 for the modernization of the flood embankment on the left bank of the San River, in the estuary section, approximately 4.5 km long (at km 0+000 - 4+445 according to the embankment mileage) the following elements were included:

- extension (elevating and expanding) of embankment's crest by approx. 1 – 1.5 m;
- sealing the embankment's body with approx. 10 – 14 m deep anti-filtration membrane and PVC foil screen;
- construction of a boulevard in the form of a retaining wall;
- construction of a mobile flood protection system;
- execution of a flood road on the landside of the embankment next to the embankment foundation;
- performing of a green belt along the embankment, on the landside of the embankment and in the inter-embankment area;
- extension of six embankment crossings;
- performing of drainage to enable water drainage from the existing road;
- rebuild of the surface of the access road located on the embankment.

1.2 BASIC TERMS OF THE CONTRACT

Contract signing date:	December 31, 2019
Works commencement date:	January 9, 2020
Works completion date (according to the Contract):	12 months from the handover of the Construction Site by the Investor – January 9, 2021
Annex No 1 signing date:	July 31, 2020
Annex No 2 signing date:	September 30, 2020
Annex No 3 signing date:	December 18, 2020
Works completion date:	October 3, 2020
Final Acceptance Protocol signing date:	December 18, 2020

2 ENVIRONMENTAL, SOCIAL, HEALTH & SAFETY ACTIVITIES AND EVENTS

2.1 CONTRACTOR'S ACTIVITIES

In the reporting period, the Contractor performed preparatory and construction works under Contract 3D.1, including, among others, implementation of individual measures listed in the Environmental Management Plan to the extent assigned to the Contractor.

2.2 ENGINEER'S/CONSULTANT'S ACTIVITIES

In the reporting period, the Engineer/Consultant supervised the works of the Contractor under the Contract 3D.1, including implemented individual activities listed in the Environmental Management Plan in the scope assigned to the Engineer/Consultant.

2.3 INVESTOR'S ACTIVITIES

In the reporting period, the Investor performed activities assigned to him related to the implementation of Contract 3D.1, including implemented individual activities listed in the Environmental Management Plan in the scope assigned to the Investor and supervised the activities of the Contractor and the activities of the Engineer/Consultant.

2.4 OTHER ACTIVITIES

Not applicable.

2.5 EXTRAORDINARY EVENTS, THREATS, DISASTERS

In the reporting period, in June, the Engineer adopted Annex no. 5 to the BIOZ prepared by the Contractor, specifying the procedure to be followed in connection with the implementation of the epidemic state, in accordance with the guidelines of the Minister of Development and the Central Statistical Office. Additionally, in the same month, a flood risk was introduced.

2.6 ACCIDENTS

In the first quarter of the reporting period (January 2020), a Near-Miss Incident took place. The MV (medium voltage) power line was broken while the excavator was moving to the work station.

2.6.1 Accidents involving employees of the Contractor

In the first quarter of the reporting period (January 2020), a Near-Miss Incident took place. The MV (medium voltage) power line was broken while the excavator was moving to the work station. The reason was a violation of the rules for the passage of the construction machine specified in the OMD (operation and maintenance documentation). No people were hurt in the Near-Miss Incident. Corrective actions were taken in the form of additional Health and Safety training for the Contractor's employees, and the danger zone under the MV power line was marked.

2.6.2 Accidents involving persons authorized to be present on site and other persons

Not applicable.

2.7 ACTIVITIES RELATED TO PROVIDING SALARY AND EMPLOYMENT TERMS OF THE CONTRACTOR'S PERSONNEL

In the reporting period, the Contractor ensured appropriate salary and employment terms for the personnel, in line with the labor law provisions in force in Poland.

2.8 ACTIVITIES RELATED TO COUNTERACTING SEXUAL HARASSMENT AND MOBBING

In the reporting period, there were no events related to cases of sexual harassment and mobbing.

3 MITIGATION AND MONITORING MEASURES LISTED IN THE EMP FOR THE CONTRACT 3D.1

The Environmental Management Plan (EMP) for the Contract 3D.1 was prepared on March 18, 2019 (final version). On March 27, 2019, the World Bank issued “No objection” decision, approving the Environmental Management Plan as one of the tender documents for the selection of the Contractor for construction works under the Contract. The Environmental Management Plan is the document that organizes the actions undertaken under the Contract, obliges everyone involved in the Contract implementation to comply with its requirements. A detailed description of the Contract implementation in terms of the environmental management was presented as the Appendixes to the EMP – Appendix 1 containing Mitigation Measures Plan and Appendix 2 containing Monitoring Measures Plan.

3.1 REQUIREMENTS LISTED IN THE APPENDIX 1 TO THE EMP

The Appendix 1 to the EMP for the Contract 3D.1 includes 109 mitigation measures aimed to prevent and to limit the negative impact of the Project on the environment. Those measures results, to a large, extend, from the Environmental Decision (Decision on environmental conditions dated January 2, 2017, Ref. no.: WOOŚ.4233.2.2015.KR.76) and from the formal requirements of the World Bank. The list of measures listed in the table contains references to requirements of the Environmental Decision (if they result directly from requirements of the Environmental Decision) as well as to the list of organizational units responsible for their implementation.

The measures are divided into 9 thematic categories marked with letters *A - I* and described in checking lists:

Sign	Category	Item
<i>A</i>	<i>GENERAL REQUIREMENTS</i>	1-4
<i>B</i>	<i>REQUIREMENTS FOR LAND OCCUPATION</i>	5-6
<i>C</i>	<i>MEASURES TO BE IMPLEMENTED PRIOR TO WORKS COMMENCEMENT</i>	7-20
<i>D</i>	<i>REQUIREMENTS FOR ORGANIZATION OF CONSTRUCTION SITE</i>	21-44
<i>E</i>	<i>REQUIREMENTS FOR THE USE OF ACCESS ROADS AND TECHNOLOGICAL LANES</i>	45-51
<i>F</i>	<i>REQUIREMENTS FOR FELLING OF TREES AND REMOVING OF SHRUBS</i>	52-53
<i>G</i>	<i>REQUIREMENTS FOR THE PERFORMANCE OF CONSTRUCTION WORKS</i>	54-96
<i>H</i>	<i>REQUIREMENTS FOR POST-CONSTRUCTION PHASE</i>	97-100
<i>I</i>	<i>OTHER REQUIREMENTS RELATED TO ESHS</i>	101-109

3.2 REQUIREMENTS LISTED IN THE APPENDIX 2 TO THE EMP

The Appendix 2 to the EMP for the Contract 3D.1 includes a set of 109 measures aimed to control the mitigation measures implementation defined in the Appendix 1 to the EMP. Table of the monitoring measures includes the same thematic categories as those applied to the mitigation measures. In the table of the monitoring measures specified the areas, methods, period and frequency of monitoring, as well as the organizational units responsible for conduct of the monitoring measurements.

4 SUPERVISION SYSTEM ON THE IMPLEMENTATION OF MEASURES LISTED IN THE EMP FOR THE CONTRACT 3D.1

Supervision over the implementation of mitigation measures and monitoring measures listed in the EMP for the Contract 3D.1 was carried out by all organizational units involved in the Contract implementation i.e. the Contractor for construction works, the Contract's Engineer, the Project Implementation Unit (PIU) and the Project Implementation Office (PIO). Information on the scope of activity of each organizational unit is presented below.

4.1 THE CONTRACTOR FOR CONSTRUCTION WORKS

The person responsible for implementing the measures listed in the EMP on behalf of the Contractor for construction works was the Site Manager. In order to support the Site Manager in the EMP implementation, the Contractor's Environmental Supervision team was appointed, composed of a person acting as the Coordinator for Environmental Management. The duty of the Coordinator for Environmental Management was ongoing cooperation with the Site Manager, the rest of the Contractor's staff and the Key Environmental Management Expert in the Engineer's team in ensuring the implementation of EMP conditions, as well as conducting ongoing reporting in the above-mentioned range. Moreover, according to item no. 85 and 87 in the Appendix 1 to the EMP, the Contractor assured the archeological and sapper experts supervision according to the EMP requirements.

After each month of the construction works the Contractor's Coordinator for Environmental Management prepared so-called Checklist to describe in details the current status of implementation of the EMP requirements in this month. The checklist was submitted to the Environmental Expert in the Engineer's team as an Appendix to the Reports on the implementation of measures listed in the EMP, together with other appendixes i.e. botanist's note, zoologist's note, herpetologist's note and photographic documentation.

4.2 THE ENGINEER

Direct supervision over the EMP implementation on behalf of the Engineer's team was carried out by the Key Environmental Management Expert in cooperation with the Resident Engineer and other members of the Engineer's team performing the investor supervision over the investment implementation. The Key Environmental Management Expert cooperated with supporting experts in the Engineer's team and in addition, he was in constant contact with the Contractor's Coordinator for Environmental Management to determine the scope of conditions to be met at each stage, to coordinate the EMP requirements implementation, to participate in current problems solving and monitor the construction site area. At the end of each reporting period (each month and each quarter), the Key Environmental Management Expert verified the Contractor's environmental documentation, including the EMP measures implementation checklist and prepared his own reports submitted to the Project Implementation Unit.

4.3 PROJECT IMPLEMENTATION UNIT (PIU)

Direct supervision over the EMP implementation on behalf of the Project Implementation Unit (PIU) was carried out by the Environmental Expert cooperating with PIU's Manager, other PIU's members and other organizational units of the Regional Water Management Authority in Rzeszów. The Environmental Expert, as well as PIU's Manager, stayed in touch with the Key Environmental Management Expert in the Engineer's team to supervise the EMP implementation and to participate in current problems solving. At the end of each reporting period (each month and each quarter), the Environmental Expert and PIU's Manager verified the Contractor's and the Engineer's environmental documentation and then forwarded it to the Project Implementation Office.

4.4 PROJECT IMPLEMENTATION OFFICE (PIO)

Direct supervision over the EMP implementation on behalf of the Project Implementation Office (PIO) was carried out by the Environmental Management Expert in cooperation with other PIO's members. The Environmental Management Expert was in constant contact with PIU's Manager and with the Environmental Expert in the PIU's team. He also cooperated with representatives of other organizational units i.e. the Key Environmental Management Expert in the Engineer's team, the Site Manager, and the Coordinator for Environmental Management in the Contractor's Environmental Supervision team. The Environmental Management Expert supervised the EMP implementation, was involved in current problems solving and participated in monitoring of construction site area. At the end of each reporting period (each month and each quarter), he verified the environmental documentation provided by the PIU and prepared the contents of the PIO reports to be submitted to the World Bank.

5 REPORT ON IMPLEMENTATION OF MEASURES LISTED IN THE EMP FOR CONTRACT 3D.1

5.1 STATUS OF IMPLEMENTATION OF MITIGATION MEASURES FROM APPENDIX 1 TO THE EMP

In accordance with Appendix 1 to the EMP for Contract 3D.1, the entities responsible for implementation of mitigation measures specified in Appendix 1 to the EMP are: **the Contractor (109 measures:** items 1-109 in Appendix 1 to EMP), **the Engineer / Consultant (1 measure:** item 109 in Appendix 1 to the EMP), and **the Investor (4 measures:** items 11, 58, 99-100 in Appendix 1 to the EMP). Overall, the EMP for the Contract 3D.1 provides for implementation of 109 mitigation measures, including at least 103 measures that should be implemented in the reporting period (see below).

5.1.1 Contractor's Measures

According to information provided by the Contractor and information from the Engineer:

- a) In the reporting period, the Contractor implemented 103 (94.5%) mitigation measures: (items 1-8, 10-12, 14-59, 61-85, 87-95, 97-99, 101-109 in Appendix 1 to the EMP);
- b) In the reporting period, the Contractor did not implement 6 (5.5%) mitigation measures (there was no need to implement measures): (items 9, 13, 60, 86, 96 and 100 in Appendix 1 to the EMP);

Mitigation measures were implemented by the Contractor with the involvement of experts from the Contractor's Environmental Supervision team. In the reporting period, the team consisted of the following persons: environmental supervision coordinator (simultaneously acting as the coordinator for the nature supervision team and expert botanist), herpetologist and mammologist expert, ornithologist expert, archaeologist expert, H&S coordinator and sapper.

Mitigation measures were agreed (if this was required by the terms of Contract and/or the EMP) and supervised by the Engineer with involvement of the following persons in the Engineer's team: Key Environmental Management Expert, Senior Supporting Expert for Environmental Management, Senior Supporting Expert – H&S Inspector, Senior Supporting Expert – Technical Assistance Expert, Senior Supporting Experts – Supervision Inspectors and Key Experts – Resident Engineer and Project Manager.

5.1.2 Engineer's/Consultant's Measures

According to the information provided by the Engineer/Consultant:

- a) In the reporting period, the Engineer/Consultant implemented 1 (0.9%) mitigation measure (item 109 in Appendix 1 to the EMP).

The mitigation measure was implemented by the Engineer/Consultant with the participation of selected specialists from the Engineer's/ Consultant's environmental team.

5.1.3 Investor's Measures

According to information provided by the Investor and the Engineer/Consultant:

- a) In the reporting period, the Investor implemented 2 (1.8%) mitigation measures (items 11, 58 in Appendix 1 to the EMP).
- b) In the reporting period, the Investor did not implement 2 (1.8%) mitigation measures (items 99-100 in Appendix 1 to the EMP), due to the fact that the implementation of these measures is required after the end of the Contract implementation period.

Mitigation measures were implemented by the Investor with the involvement of the following persons from the PIU team: Environmental Expert, Technical Expert (Supervision Inspector) and PIU's Manager.

5.1.4 Conclusions from the implementation of mitigation measures

Information on the extent of mitigation measures implemented by the Contractor, the Engineer/Consultant, and the Investor is presented in sections 3 and 5. As a result of the monitoring measures described in sections 5.2.1-5.2.3, the following problems and anomalies related to the implementation of 37 mitigation measures from Appendix 1 to the EMP were found throughout the entire period of works implementation:

- a) No limitation of land occupation and transformation

[referring to measures under items 5, 16, 30, 32-33 in Appendix 1 to the EMP]:

In February and at the beginning of March, the Contractor kept humus on the waterside slope of the embankment. The proper humus storage (at the form of stockpiles on the landside of the embankment) was carried out only at the initial section of the embankment. In April and May, the Contractor again kept humus on the waterside slope of the embankment. In June, the Contractor stored the humus in the proper place and in the proper way (at the form of stockpiles on the landside of the embankment). In July, the Contractor kept humus in the inter-embankment area. After submitting the remarks, the Contractor removed the humus from the inter-embankment area and in the following months (August and September) there were no problems with the implementation of this item. The humus stored on the embankment slope (on the waterside) was mixed with other soil masses, stones and waste extracted during removal of the humus layer.

The implementation of the measure relates to the requirements included in the EMP, and the need to ensure adequate protection of humus is also regulated by the requirements included in the Environmental Decision. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

b) Lack of inventory of the initial state of the construction site

[referring to measure under item 8 in Appendix 1 to the EMP]:

Problems with the item implementation occurred in January and February, when the Contractor did not obtain the Engineer's approval for the (incomplete) inventory of the construction site and its surroundings together with the attached photographic documentation. In the following period, in March, April and May, the document was still not fully approved by the Engineer (the document received the "C" status) for the (incomplete) inventory of the construction site. In June, the document was completed and was approved by the Engineer in the "A" status. The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

c) Lack of protection of natural habitats and habitats of species

[referring to measure under item 12 in Appendix 1 to the EMP]:

In February, insufficient fencing of valuable habitats and no permanent fencing within the meaning of the EMP was found.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

d) Delays in preparing documentation

[referring to measures under items 17, 20, 21, 26 in Appendix 1 to the EMP]:

In January and February, the Contractor did not prepare complete documentation of the BIOZ plan and did not obtain the Engineer's approval. In March, this document was completed and was approved by the Engineer in the "A" status.

In January, the Contractor did not develop a Waste Management Plan. In February, the Plan was presented by the Contractor in an incomplete version and was not approved by the Engineer. In March and April, the Contractor still did not complete the Waste Management Plan, and therefore the document was rejected by the Engineer - obtained the "C" status. In May, the Contractor completed the Waste Management Plan and obtained the Engineer's approval in the "A" status.

In January and February, the Contractor prepared a Project of Construction Site Organization, which required correction in accordance with the Engineer's remarks - the document was not

fully approved (status "B"). In March, the document was corrected in accordance with the Engineer's remarks and the Project of Construction Site Organization was approved by the Engineer in the "A" status.

In January, the Contractor did not develop a Communication Plan for the Construction Site for the Purposes of an Emergency, and did not submit the document for approval by the Engineer. In February, the Contractor prepared the Communication Plan, but the document was not fully approved by the Engineer (status "B"). In March, the Contractor presented a revised Communication Plan and obtained the approval of the document by the Engineer in the "A" status.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

e) No markings of the construction site

[referring to measures under items 23, 24, 27 in Appendix 1 to the EMP]:

The Contractor did not mark the construction site in January and February, which is important for safety reasons. Marking of the construction site was made by the Contractor in March. In April, the Contractor did not install the signs, because the Project of Traffic Organization was agreed at the end of April, and therefore the area was properly marked in accordance with the Project in May.

In January, the Contractor did not designate and mark hazardous zones. The Contractor marked the hazardous zones in February.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

f) Lack of proper traffic preparation of construction vehicles traffic on public roads, lack of designation of access routes for emergency services and lack of designation of parking places for vehicles

[referring to measures under items 25, 49, 50, 51 in Appendix 1 to the EMP]:

In the period from January to February, there were problems with the designation of access routes for emergency services and problems with the designation of parking places for construction vehicles. The Contractor outlined the routes of emergency services, access routes and parking places for vehicles in March.

In the first quarter and at the beginning of the second quarter, the access roads to the construction site were not marked by the Contractor.

In the first quarter, The Contractor did not obtain necessary Approval of the Roads Administration of the Traffic Organization and Works Protection Plans. At the beginning of the second quarter, the Contractor presented incomplete Traffic Organization Plans, and then in June he completed the gaps.

In the first quarter, the Contractor was also obliged to obtain Approval for the Traffic Organization and Works Protection Plans (along with the schedule) with the Engineer, which was not implemented. At the beginning of the second quarter, the Contractor presented incomplete Plans to the Engineer, and then, in the second quarter, he completed them.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- g) Lack of equipment of refueling and garaging stations for vehicles and construction machines. No inspection of technical conditions of vehicles and construction machines, and no sorbents on the construction site.

[referring to measures under items 34, 38, 79 in Appendix 1 to the EMP]:

In the first quarter, there were no problems with the equipment of refueling and garaging stations for vehicles and construction machines, or the lack of sorbents. In the second quarter, in April, the Contractor did not provide the appropriate equipment enabling the quick liquidation of the leak. The condition of the machines operating on the construction site was not properly inspected. Adequate supply of sorbents was ensured at the end of the second quarter, and then in the third quarter, no problems were found with the implementation of this item.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- h) Lack of proper equipment and operation of places for storage of lubricants and fuel

[referring to measure under item 35 in Appendix 1 to the EMP]:

In February, the Contractor placed the fuel containers on the leaky ground. The storage conditions for lubricants and fuels improved in the following quarters.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- i) Lack of proper cleaning of technological roads, lack of proper protection of vehicles transporting loose materials to prevent dusting

[referring to measures under items 48, 69, 75 in Appendix 1 to the EMP]:

At the beginning of the second quarter and the third quarter, road cleaning by the Contractor was carried out ineffectively, which resulted in contaminated roads in the vicinity of the construction site. In May, the Contractor failed to ensure coordination between traffic lights and piling works. In the second quarter, the Contractor insufficiently prevented dusting during the

transport of construction materials, due to the lack of permanent protection of the transport vehicles by the tarpaulins.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- j) Problems with the prevention of creation and the methods of liquidation of stillwater pits which can be the habitat of amphibians on the construction site

[referring to measure under item 63 in Appendix 1 to the EMP]:

At the end of the second quarter and the beginning of the third quarter, there were problems with the systematic liquidation of Stillwater pits created by heavy rains. The implementation of the measure improved in the following months.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- k) Lack of systematic liquidation of the effects of leaks of petroleum substance

[referring to measure under item 81 in Appendix 1 to the EMP]:

In the second quarter, delays in the liquidation of the effects of leaks of harmful substances by the Contractor were found. Leaks were not eliminated immediately. In the third quarter, there was no systematic and quick removal of leaks of petroleum substance.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

- l) Lack of proper waste treatment

[referring to measures under items 82, 83 in Appendix 1 to the EMP]:

In the first quarter, as a result of the failure to develop a Waste Management Plan, there were problems with proper handling of the generated waste at the ongoing works stage. In the second quarter, as a result of incomplete developing of the Waste Management Plan (in April – status "C"), the Contractor did not meet the requirements for proper handling of the generated waste. Despite the fact, that in May the Contractor submitted the completed Waste Management Plan, later, in the third quarter, there were problems with the systematic cleaning of the construction site from municipal waste.

In the first quarter, the Contractor did not hand over the waste transfer cards to the Engineer. They were handed over to the Engineer in the second quarter.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

m) Failure to fully meet the ESHS requirements by the Contractor

[referring to measures under items 101 - 108 in Appendix 1 to the EMP]:

In January, the Contractor developed the ESHS document partially, only with regard to environmental issues, and therefore the overall document was not approved by the Engineer. At that time, there was a Near-Miss Incident related to the power line damage. No one was hurt as a result of this incident, but not all safety standards and the required caution during construction works were met. The H&S Specialist was provided in the Contractor's team in January, but the H&S issues were only partially discussed, in the range too narrow in relation to the current stage of the contract. In the following months, the implementation of the measure improved. Within the scope of ESHS activities, the Contractor did not provide adequate educational activities in the field of filing complaints about employment and salary terms by an employees. In February, the lack of full implementation of ESHS document by the Contractor still did not allow to verify the correctness of the implementation of social issues, including activities related to counteracting mobbing and sexual harassment. The information leaflet was not presented to the Engineer. In March, the ESHS document was presented to the Engineer and obtained final approval.

The implementation of the measure relates to the requirements included in the EMP. The lack of measure implementation did not significantly affect the environmental condition adversely in the investment area.

5.2 STATUS OF IMPLEMENTATION OF MONITORING MEASURES FROM APPENDIX 2 TO THE EMP

In accordance with contents of Appendix 2 to the EMP for Contract 3D.1, the entities responsible for implementation of monitoring measures specified in Appendix 2 to the EMP are: **Contractor (109 measures:** items 1-109 in Appendix 2 to the EMP), **Engineer (109 measures:** items 1-109 in Appendix 2 to the EMP), and **Investor (2 measures:** items 99-100 in Appendix 2 to the EMP). Overall, the EMP for contract 3D.1 provides for implementation of 109 monitoring measures, all of which should be implemented in the reporting period. No monitoring measures were completed in previous reporting periods (see below).

5.2.1 Contractor's Measures

In the reporting period, the Contractor was implementing monitoring measures for implementation of mitigation measures, as described in Appendix 2 to the EMP. Monitoring was performed by the following means: (i) verification of requirements set out in the EMP for the current stage of works; (ii) verification of the Contractor's documents related to performance of requirements set out in the EMP; (iii) routine inspections in the works area; (iv) activities

indicated in Appendix 2 to the EMP; and (v) on-going arrangements with representatives of the Engineer and of the Investor.

- a) In the reporting period, the Contractor performed 109 (100%) monitoring measures (items 1-109 in Appendix 2 to the EMP);
- b) In the reporting period, there were no instances determined of lack of implementation of any monitoring measures assigned to the Contractor, including:
 - the implementation of no measure was not unnecessary in the reporting period;
 - there were no instances determined of lack of implementation of any measures required in the reporting period.

Monitoring measures were implemented by the Contractor with involvement of experts from the Contractor's environmental team, including the Coordinator for Environmental Management and the H&S Coordinator.

5.2.2 Engineer's/Consultant's Measures

In the reporting period, the Engineer/Consultant was implementing monitoring measures for implementation of mitigation measures, as described in Appendix 2 to the EMP. Monitoring was performed by the following means: (i) verification of requirements set out in the EMP for the current stage of works; (ii) verification of the Contractor's and Investor's documents related to performance of requirements set out in the EMP; (iii) routine inspections in the works area; (iv) measures indicated in Appendix 2 to the EMP, and (v) on-going arrangements with representatives of the Contractor and of the Investor.

- a) In the reporting period, the Engineer/Consultant was implementing 109 (100%) monitoring measures (items 1-109 in Appendix 2 to the EMP);
- b) In the reporting period, there were no instances determined of lack of implementation of any monitoring measures assigned to the Engineer/Consultant, including:
 - performance of no measure was not unnecessary in the reporting period;
 - there were no instances determined of lack of implementation of any measures required in the reporting period.

Furthermore, in the reporting period, the Engineer/Consultant supervised the implementation of 109 monitoring measures assigned to the Contractor in accordance with Appendix 2 to the EMP.

Monitoring and supervision measures, to the extent covered by the EMP, were implemented by the Engineer/Consultant with involvement of selected experts from the Engineer's/Consultant's environmental team.

5.2.3 Investor's Measures

In the reporting period, the Investor was implementing monitoring measures for implementation of mitigation measures, as described in Appendix 2 to the EMP. Monitoring was

performed by the following means: (i) verification of requirements set out in the EMP for the current stage of works; (ii) verification of the Contractor's and Engineer's documents related to performance of requirements set out in the EMP; (iii) routine inspections in the works area; (iv) measures indicated in Appendix 2 to the EMP; and (v) on-going arrangements with representatives of the Contractor and of the Engineer.

- a) In the reporting period the Investor was performing 2 (1.8%) monitoring measures, including:
 - the measures were completed to the extent required for the reporting period (items 99-100 in Appendix 2 to the EMP).
- b) In the reporting period, there were no instances determined of lack of implementation of any monitoring measures assigned to the Investor, including:
 - performance of no measure was not unnecessary in the reporting period;
 - there were no instances determined of lack of implementation of any measures required in the reporting period.

Furthermore, the Investor supervised the implementation of 109 monitoring measures assigned to the Contractor and to the Engineer in accordance with Appendix 2 to the EMP. Monitoring and supervision measures, to the extent covered by the EMP, were implemented by the Investor with involvement of Environmental Expert from PIU and Technical Expert (Supervision Inspector).

5.2.4 Conclusions from the implementation of monitoring measures

According to the information provided by the Contractor and the Engineer's and the Investor's information, no problems with the implementation of monitoring measures listed in Appendix 2 to EMP were found in the reporting period.

6 SUMMARY

This document presents a report on the implementation of measures listed in the Environmental Management Plan (EMP) for the project: „Contract 3D.1 San Programme. Passive Protection in San basin” under the Odra and Vistula Flood Management Project (OVFMP).

The report concerns the activities carried out in the period:

- from the date of commencement of the works by the Contractor (i.e. from January 9, 2020);
- to the date of completion of the works covered by the Contract (i.e. to October 3, 2020).

In the reporting period, the Contractor carried out construction works in the scope covered by the Contract (see description in chapter 1), including 103 mitigation measures specified in the EMP (see description in chapter 5.1.1), monitored the implementation status of 109 mitigation measures specified in the EMP (see description in chapter 5.2.1) and participated in other environmental, social, health & safety events (listed in chapter 2.1).

In the reporting period, the Engineer/Consultant supervised construction works carried out under Contract 3D.1, including implemented individual measures specified in the EMP in the scope assigned to the Engineer/Consultant (see description in chapter 5.1.2), monitored the implementation status of 109 mitigating measures specified in the EMP (see description in chapter 5.2.2) and participated in other environmental, social, health & safety events (as listed in chapter 2.2).

In the reporting period, the Investor performed activities assigned to him related to the implementation of Contract 3D.1, including implemented individual measures specified in the EMP within the scope assigned to the Investor (see description in chapter 5.1.3), monitored the implementation status of 2 mitigating measures specified in the EMP (see description in chapter 5.2.3) and participated in other environmental, social, health & safety events (as listed in chapter 2.3).

As a result of monitoring measures carried out by the Contractor, Engineer and Investor, it was found that during the reporting period:

- a) 103 out of 109 mitigation measures specified in Appendix 1 to the EMP were implemented, including:
 - in the case of 72 measures, no problems with their implementation were found,
 - in the case of 37 measures, problems with their implementation were found;
- b) 6 out of 109 mitigating measures specified in Appendix 1 to the EMP were not implemented
(there was no need to implement the above-mentioned measures during the implementation of the Contract);
- c) 109 out of 109 monitoring measures from Appendix 2 of the EMP were implemented, including:
 - all measures were completed to the extent required in the reporting period;
 - performance of no measure was not completed in previous periods.

7 SOURCE MATERIALS

- 1) Environmental Impact Assessment Report for the project entitled:
„San III – extension of the left embankment of the San River at 0+000 – 4+445 km, Gorzyce commune, podkarpackie voivodeship”.
Agency for Ecological Technologies and Investment Realization mkm PERFEKT Sp. z o.o., Kraków, January 2016.
- 2) Decision of the Regional Director for Environmental Protection in Rzeszów from January 2, 2017, on environmental conditions of the approval for the implementation of the project entitled: *„San III – extension of the left embankment of the San River at 0+000 – 4+445 km, Gorzyce commune, podkarpackie voivodeship”* (Ref. no.: *WOOS.4233.2.2015.KR.76*).
- 3) *Environmental Management Plan for the Contract 3D.1*. Project Implementation Unit OVFMP in Regional Water Management Authority in Rzeszów, Consultant Regional Water Management Authority in Rzeszów. Rzeszów, March 2019.
- 4) *Work Progress Reports* submitted by the Contractor of the Contract 3D.1 in the subsequent months of the reporting period.
- 5) *Contract Engineer's Monthly and Quarterly Reports*, for subsequent months and quarters in the period of service provision *„Design and construction supervision. Project management, technical assistance and support for project implementation units in the implementation of the Odra and Vistula Flood Management Project., - Contract no. 5.2*.

8 LIST OF APPENDICES

Appendix no. 1. *Checklist for implementation of measures listed under Appendices 1 and 2 to the EMP for Contract 3D.1.*

Reporting period: 01/09/2020 – 10/03/2020