

FINAL REPORT
ON IMPLEMENTATION OF MEASURES
DETERMINED IN THE ENVIRONMENTAL MANAGEMENT PLAN
for the Contract 3B.1

Odra-Vistula Flood Management Project

OVFMP Subcomponent	3B Protection of Sandomierz and Tarnobrzeg
Contract Task	3B.1 Flood Protection Sandomierz
Investor / Project Implementation Unit	State Water Holding Polish Waters Regional Water Management Authority in Cracow 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
Project Implementation Office (PIO)	Project Implementation Office in Cracow – branch in Kielce 5. Robotnicza Street, 25-662 Kielce, Poland
Contractor of Works	JV of: MELBUD Spółka Akcyjna – Leader 4. Składowa Street, 86-300 Grudziądz, Poland "Energopol-Szczecin" Spółka Akcyjna – Partner 9/13. Św. Floriana Street, 70-646 Szczecin, Poland
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INTRODUCTION

This paper, as developed by the Contract Engineer within the framework of Consulting Services Contract no. 5.2 *Design and Construction Supervision. Project Management, Technical Assistance and Training, Technical Support for the Project and Strengthening of PIU's Institutional Capacity*, presents a final report on implementation of measures determined in the Environmental Management Plan (EMP) for Works Contract 3B.1 *Flood Protection Sandomierz*.

The report covers the following period:

- from the Commencement Date for the Works under Contract 3B.1 (i.e. **from November 17, 2017**);
- to the completion date for the works considered as essential, as results from the Time for Completion for the aforementioned Contract (i.e. **to December 31, 2020**).

The following was presented for the Contract:

- basic information on Contract 3B.1 (including e.g. the scope of works and basic deadlines for the Contract);
- basic information on the Environmental Management Plan for Contract 3B.1;
- organizational system for supervision over implementation of the Environmental Management System;
- status of implementation for mitigation measures listed in Appendix 1 to the EMP;
- status of implementation for monitoring measures listed in Appendix 1 to the EMP;
- description of other measures and events associated with the ESHS;
- summary.

1 BASIC INFORMATION ON CONTRACT 3B.1

Works Contract 3B.1 *Flood Protection Sandomierz* is implemented under *Odra-Vistula Flood Management Project* (OVFM Project), as a part of Component 3 *Flood Protection of the Upper Vistula* and Subcomponent 3B *Protection of Sandomierz and Tarnobrzeg*.

An agreement with the Contractor for Contract 3B.1 has been signed on August 8, 2017. On November 17, 2017 the Engineer issued an Instruction to Commence the Works (so-called Commencement Date). The Time for Completion (1140 days from the Commencement Date for the Works) expired on December 31, 2020.

Basic information about the Contract are presented below.

Name of the Contract:

Flood Protection Sandomierz.

Contractor:

a) from August 2017 to October 2019¹

JV of the following companies:

“Energopol-Szczecin” Spółka Akcyjna [Joint Stock Company] – leader
(9/13. Św. Floriana Street, 70-646 Szczecin, Poland)

MELBUD Spółka Akcyjna [Joint Stock Company] – partner
(4. Składowa Street, 86-300 Grudziądz, Poland).

b) from October 2019 to December 2020

JV of the following companies:

MELBUD Spółka Akcyjna [Joint Stock Company] – leader
(4. Składowa Street, 86-300 Grudziądz, Poland)

“Energopol-Szczecin” Spółka Akcyjna [Joint Stock Company] – partner
(9/13. Św. Floriana Street, 70-646 Szczecin, Poland).

Scope of Works:

From August 2017 to November 2019 the scope of works for Contract 3B.1 comprised 6 Subtasks, as listed below.

Subtask 1 *“Flood protection within the mouth section of the Atramentówka River, construction of a new pumping station “Koćmierzów” and of a gravity-type dam lock in Koćmierzów (in the right embankment of the Vistula River) and of a channel draining water from the Atramentówka River to the pumping station”.*

Subtask 2 *“Flood protection within the area of the Struga A watercourse together with an alteration and expansion of the pumping station “Nadbrzezie”.*

¹ On October 3, 2019 the Contractor’s JV leader has been changed.

Subtask 3 “Expansion of the surrounding embankment protecting Glassworks and a Housing Estate against the flood waters in the town of Sandomierz together with an extension of the embankment of the Vistula River from the Lwowska Street to intersection of Koćmierzów embankment”.

Subtask 4 “Protection the embankments of Koprzywianka River – left embankment in km 0+ 000 ÷ 12+900, right embankment in km 0+000 ÷ 14+400”.

Subtask 5 “Construction of the water pumping station in Szewce”.

Subtask 6 “Construction of the water pumping station in Zajeziorko”.

On October 31, 2019 the Investor terminated Contract 3B.1 in the range of Subtasks 3 and 4 – in a part not implemented so far – due to the Contractor’s failure. The termination was lawful on November 14, 2019. From that moment the scope of Contract 3B.1 has been limited to Subtasks 1, 2, 5 and 6 only, and implementation of Subtasks 3 and 4 has been transferred to a separate Contract 3B.1/1 *Flood Protection Sandomierz – completion of Tasks 3 and 4* (commenced in January 2020).

Basic dates for the Contract:

Agreement signing date:	August 8, 2017
Commencement Date for the Works:	November 17, 2017 (commencement of the works on site: January 2018)
Time for Completion:	1140 days from the Commencement Date (December 31, 2020)
Signing date for Annex no. 1:	June 25, 2018 (organizational and formal changes on the Employer’s side)
Signing date for Annex no. 2:	October 3, 2019 (change of the Contractor’s JV Leader)
Date of issuing Notification of Termination for Contract 3B.1 in the range of Subtasks 3 and 4:	October 31, 2019 (the termination became effective of November 14, 2019)
Completion Date for the Works (according to the Time for Completion):	December 31, 2020 (commissioning of the works considered as essential in the range of Subtasks 1, 2, 5, and 6)

2 MITIGATION AND MONITORING MEASURES DETERMINED IN THE EMP FOR CONTRACT 3B.1

The Environmental Management Plan for Contract 3B.1 has been developed in October 2016 (final version). On October 31, 2016 the World Bank issued “No Objection” acceptance approving the Environmental Management Plan as one of documents for the bidding procedure applied to select the Contractor of construction works under the Contract. It is a document systematizing actions undertaken within the framework of the Contract and obliging all units participating in implementation of the Contract to observe the provisions given therein. A detailed description of contract implementation conditions referring to the environmental management has been developed in the form of appendices to the EMP – Appendix 1 containing the *Mitigation Measures Plan* and Appendix 2 containing the *Monitoring Measures Plan*.

2.1 CONDITIONS DETERMINED IN APPENDIX 1 TO THE EMP

Appendix 1 to the EMP for Contract 3B.1 contains 140 mitigation measures, which are to prevent and limit adverse impact of the investment on the environment. Those measures result from contents of the decision on environmental conditions, as issued for the Contract in question (given in Appendix 4 to the EMP), as well as from procedural requirements of the World Bank and additional conditions determined during the works on development of the EMP. Table of mitigation measures given in Appendix 1 to the EMP described particular measures and determined locations of their implementation, as well as the units responsible for their implementation.

Mitigation measures listed in Appendix 1 to the EMP belong to the following 7 categories:

- a) rules connected with property acquisition
(items 1-3 under Appendix 1 to the EMP);
- b) measures to be performed prior to works commencement
(items 4-15 under Appendix 1 to the EMP);
- c) requirements concerning the access routes to the construction sites
(items 16-29 under Appendix 1 to the EMP);
- d) organization of the site facilities, warehouses and storage yards
(items 30-45 under Appendix 1 to the EMP);
- e) requirements for cutting out trees and shrubs
(items 46-49 under Appendix 1 to the EMP);
- f) requirements at the stage of works implementation
(items 50-138 under Appendix 1 to the EMP);
- g) requirements after completion of works
(items 139-140 under Appendix 1 to the EMP).

Contents of individual mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report.

2.2 CONDITIONS DETERMINED IN APPENDIX 2 TO THE EMP

Appendix 2 to the EMP for Contract 3B.1 contains a set of 140 monitoring measures, which are to monitor implementation of mitigation measures described in Appendix 1. A tabulated summary of monitoring measures, as given in Appendix 2 to the EMP, contains the same breakdown into categories as in case of the mitigation measures. The table of monitoring measures determines e.g. location, method, time, and frequency of monitoring, as well as the units responsible for its implementation.

3 SYSTEM OF SUPERVISION OVER IMPLEMENTATION OF MEASURES DETERMINED IN THE EMP FOR CONTRACT 3B.1

Supervision over implementation of mitigation measures and monitoring measures determined in the EMP for Contract 3B.1 was performed on the level of all of the organizational units participating in the Contract implementation, i.e. Contractors, Engineer, Project Implementation Office (PIO), and Project Coordination Unit (PCU). Information on the scope of performance for individual units is presented below.

3.1 CONTRACTOR

A person directly responsible for implementation of measures determined in the EMP on the Contractor's side was the Site Manager. In order to assure assistance to the Site Manager in the range of implementing the EMP, an environmental team has been appointed in the Contractor's team, and it consisted of five experts and an Environmental Supervision Coordinator. The task of that person was an ongoing cooperation with the Site Manager, with the remaining members of the Contractor's personnel, and with the environmental management expert of the Engineer's team in securing implementation of the EMP conditions, as well as provision of ongoing reporting in that range. Furthermore, in accordance with items no. 135 and 134 under Appendix 1 to the EMP, the Contractor assured participation of the team of archaeological supervisors and sapper supervisors in the scope compliant with the EMP requirements.

After completing every month the Environmental Supervision Coordinator was developing so-called Check List, in which the current implementation status for particular EMP conditions in a given month was described. The List was forwarded to the environmental management expert of the Engineer's team, along with relevant appendices (including e.g. conclusions, opinions of the environmental team, etc.).

3.2 ENGINEER

Direct supervision over implementation of the EMP conditions by the Engineer's team was done by the environmental management expert cooperating in that range with the Resident Engineer, supervising inspectors, and other members of the Engineer's team providing investor's supervision over implementation of the investment. The environmental management expert was in an ongoing contact with the Site Manager and with the Environmental Supervision Coordinator of the Contractor's team, while establishing the range of conditions to be necessarily met on a given stage of works, supervising the implementation status for particular EMP conditions, participating in solving ongoing issues, and performing inspections on work sites. After completing each and every reporting period (month and quarter), the environmental management expert was verifying environmental documentation of the Contractor and developing own reports, which were subsequently handed over to the Project Implementation Office.

3.3 PROJECT IMPLEMENTATION OFFICE (PIO)

Direct supervision over implementation of the EMP conditions by the Project Implementation Office (PIO) was done by the Technical and Environmental Issues Expert, who cooperated in that range with the PIO Manager, with other members of the PIO team, as well as with other organization units of the RZGW in Cracow. The Technical and Environmental Issues Expert and the PIO Manager were in a direct contact with the environmental management expert of the Engineer's team, while supervising the implementation status for particular EMP conditions and participating in solving of the ongoing issues. After completing each and every reporting period (month and quarter), the Technical and Environmental Issues Expert and the PIO Manager were verifying environmental documentation of the Contract, and subsequently handed it over to the Project Coordination Unit.

3.4 ODRA-VISTULA FLOOD MANAGEMENT PROJECT COORDINATION UNIT (PCU)

Direct supervision over implementation of the EMP conditions by the Project Coordination Unit was done by the Environmental Management Expert, who cooperated in that range with other members of the PCU team. The expert was in a direct contact with the PIO Manager and with the Technical and Environmental Issues Expert of the PIO team. He was also cooperating with persons responsible for implementation of the EMP on the side of remaining organizational units of the investment process, i.e. the environmental management expert of the Engineer's team, as well as the Site Manager and the Contractor's Environmental Supervision Coordinator. The Environmental Management Expert was supervising the implementation status for particular EMP conditions, while participating in solving of ongoing issues, and participating in site inspections. After completing each and every reporting period (month and quarter), he was verifying environmental documentation handed over by the PIO, and was developing contents for PCU reports, which were subsequently submitted to the World Bank.

4 IMPLEMENTATION STATUS FOR MITIGATION MEASURES UNDER APPENDIX 1 TO THE EMP

In accordance with contents of Appendix 1 to the EMP for Contract 3B.1, units responsible for implementation of mitigation measures listed in Appendix 1 to the EMP are as follows: **the Contractor (140 measures:** items no. 1-140 under Appendix 1 to the EMP), **the Engineer (1 measure:** item no. 138 under Appendix 1 to the EMP), and **the Investor (1 measure:** item no. 138 under Appendix 1 to the EMP). In total, the EMP for Contract 3B.1 envisages implementation of 140 mitigation measures¹, including at least 132 measures to be implemented within the reporting period (in case of remaining 8 measures it was not necessary to implement them – see: below).

4.1 ACTIONS OF THE CONTRACTOR

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) within the reporting period the Contractor implemented 132 (94.3%) mitigation measures, including:
 - 78 (55.7%) measures were implemented in the scope required within the reporting period (items no. 4, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 20, 21, 27, 29, 30, 32, 33, 34, 35, 36, 43, 45, 46, 47, 48, 49, 51, 57, 61, 63, 64, 65, 66, 70, 71, 74, 75, 78, 80, 81, 84, 85, 88, 89, 90, 91, 92, 96, 97, 98, 99, 100, 101, 102, 103, 105, 106, 107, 111, 112, 113, 116, 118, 119, 123, 125, 126, 128, 129, 130, 131, 132, 134, 137, 138, 139, 140 under Appendix 1 to the EMP);
 - in case of 54 (38.6%) measures issues and / or inconsistencies associated with their implementation – as discussed in chapter 4.4 – were identified (items no. 1, 2, 3, 6, 17, 18, 19, 22, 23, 24, 25, 26, 28, 31, 37, 38, 39, 40, 41, 42, 44, 50, 52, 53, 54, 55, 56, 58, 59, 60, 62, 67, 68, 69, 72, 73, 76, 77, 82, 83, 86, 87, 93, 110, 114, 115, 117, 120, 121, 122, 124, 127, 135, 136 under Appendix 1 to the EMP).
- b) within the reporting period the Contractor was not implementing 8 (5.7%) mitigation measures, including the following:
 - implementation of 8 (5.7%) measures was not necessary throughout the entire period included in this report (items no. 9, 79, 94, 95, 104, 108, 109, 133 under Appendix 1 to the EMP);
 - cases of missing implementation for measures required within the reporting period were not identified.

Mitigation measures were implemented by the Contractor at participation of the experts from the Contractor's environmental team. Within the reporting period the team consisted of the following persons: environmental supervision coordinator (simultaneously performing the

¹ Contents of particular mitigation measures given in Appendix 1 to the EMP have been quoted in the *Check List* forming *Appendix no. 1* to this report.

function of coordinator for the environmental team, and the expert botanist, ornithologist, and chiropterologist), expert botanist, expert entomologist, expert herpetologist and theriologist, expert ornithologist, expert archaeologist, and H&S coordinator and sapper.

Mitigation measures were established (if it was required by the conditions of Contract and / or the EMP) and supervised by the Engineer, in attendance of the following persons from the Engineer's team: environmental management expert, assisting environmental protection expert, assisting H&S expert, supervising inspectors, and Resident Engineer.

4.2 ACTIONS OF THE ENGINEER

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) within the reporting period the Engineer was implementing 1 (0.7%) mitigation measure, including:
 - 1 (0.7%) measure was implemented in the scope required within the reporting period (item no. 138 under Appendix 1 to the EMP).
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) cases of missing implementation for mitigation measures assigned to the Engineer within the reporting period were not identified.

Mitigation measures were implemented by the Engineer at participation of selected specialists of the Engineer's environmental team (composition of the team has been informed in chapter 4.1).

4.3 ACTIONS OF THE INVESTOR

According to information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP:

- a) within the reporting period the Investor was implementing 1 (0.7%) mitigation measure, including:
 - 1 (0.7%) measure was implemented in the scope required within the reporting period (item no. 138 under Appendix 1 to the EMP).
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) cases of missing implementation for mitigation measures assigned to the Investor within the reporting period were not identified.

Mitigation measures were implemented by the Engineer at participation of the following persons of the PIO team: Technical and Environmental Issues Expert, and PIO Manager.

4.4 ISSUES REFERRING TO IMPLEMENTATION OF MITIGATION MEASURES LISTED IN APPENDIX 1 TO THE EMP

According to information provided in monthly reports and in quarterly reports on implementation of measures determined in the EMP, the following issues and / or inconsistencies associated with implementation of 54 mitigation measures from Appendix 1 to the EMP for Contract 3B.1 (in order compliant with numbers of items under Appendix 1 to the EMP) were identified:

- 1) Acquisition of land and traffic of vehicles beyond the boundaries of the construction site and related damages to herbal plants beyond designated technological roads and beyond the boundaries of the construction site

[related to items no. 1, 3, 19, 50, 52 and 87 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 3rd quarter of 2020 constant cases of land acquisition beyond currently valid splitting lines and beyond established sites of temporary acquisition, as well as sustained cases of damages to herbal plants – resulting from earlier land acquisition and traffic of vehicles and machines beyond the valid splitting lines and beyond the established temporary acquisition sites – were identified. The Engineer has been drawing the Contractor's attention to the ban of acquiring the land located beyond the construction site's splitting lines (except for agreed temporary acquisition sites) and to the necessary protection of plants growing beyond the established technological roads and beyond the performance sites.

The events listed above occurred beyond occurrence sites of protected and / or rare species and environmental habitats (according to the results of environmental inventories for the construction site, as attached to *Monthly Reports on EMP Implementation* in the years 2017-2018), and therefore they did not form hazard to valuable resources of the natural environment.

- 2) Delays in development of and making establishments for Traffic Organization Plans [related to items no. 2, 17, 26, 28 and 115 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 1st quarter of 2019 the Contractor was performing the works on development and establishing of the traffic organization plans for sections of public roads to be applied for the purpose of performance, but it did not complete all of the works within the deadline required under the EMP. Until completing the works on particular plans, the Contractor's personnel was undertaking – on an ongoing basis – actions to secure traffic safety in the area of entry roads to and exit roads from the construction site, depending on the current progress of works in particular locations. The Engineer has been systematically drawing the Contractor's attention to the necessary urgent completion of the works on establishments for a set of traffic organization plans.

- 3) Issues with signing for access roads and for entry roads to and exit roads from the site [related to items no. 2, 18, 24, 26 and 115 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 4th quarter of 2019 cases of issues with signing for access roads and for entry roads to and exit roads from the construction site were identified,

and they resulted from not completing the works on establishments for traffic organization plans (also see: description for item 2, above) or from the lack of implementation for the already established plans. The Engineer has been many times drawing the Contractor's attention to the necessary urgent completion of the works on establishments for a set of traffic organization plans and to the immediate implementation of the guidelines included in all of the agreed traffic organization plans (including signing for entry roads to and exit roads from the construction site, in accordance with the aforementioned plans).

4) Insufficient protection of trees and shrubs

[related to item no. 6 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 4th quarter of 2020 cases of the lack of proper protection for trees and shrubs against potential damage were identified (e.g. sustained cases of storing the construction materials in a direct neighborhood of trees and shrubs, which shall not be logged and which were not provided with proper protection against damaging, cases of no protection for trees and shrubs growing in a direct vicinity of performance sites, technological roads, etc.). The Engineer was drawing the Contractor's attention on an ongoing basis to the aforementioned inconsistencies and to the related hazard of damage to arborescent plants. The Contractor was – on an ongoing basis – supplementing the protection for trees and shrubs. Cases of adverse impact of the aforementioned events on health status of trees and shrubs were not identified within the reporting period.

5) Polluting of access roads to the construction site

[related to items no. 22, 58, 59, 62 and 115 under Appendix 1 to the EMP]:

The Contractor was undertaking actions to keep the proper technical condition (including maintenance of cleanliness) of the access roads to the construction site. Despite the measures undertaken, from the 1st quarter of 2018 to the 4th quarter of 2019 and from the 2nd quarter to the 4th quarter of 2020 cases of polluting the access roads to the construction site with sand and mud brought by vehicles were identified. The Engineer, the PIO, and the PCU have many times drawn the Contractor's attention to the necessary maintenance of the access roads clean, e.g. through implementation of measures listed in item 62 under Appendix 1 to the EMP.

6) Incomplete documentation on the technical condition of access roads to the construction site

[related to items no. 23 and 115 under Appendix 1 to the EMP]:

From the 4th quarter of 2018 to the 4th quarter of 2019 cases of missing documentation on the technical conditions for some of the access roads to the construction site, which were currently applied by the Contractor, were identified. The Engineer has been drawing the Contractor's attention to the necessary supplementation of the documentation on the condition of access roads' courses for missing sections of the roads.

- 7) Cases of damage to elements of infrastructure
[related to items no. 25 and 115 under Appendix 1 to the EMP]:
From the 2nd quarter of 2018 to the 4th quarter of 2019 cases of damage to elements of infrastructure in vicinity of performance sites were identified (e.g.: damaged slope and crest of the Vistula flood embankment at the western part of performance site for Subtask 3, cases of limited patency at embankment culverts, cases of damage to the road infrastructure [e.g. crash barriers, road course, shoulders] in vicinity of the performance site for Subtasks 4 and 3, and others). The Contractor has been obliged to repair the damages to the aforementioned elements of infrastructure.
- 8) Lack of order on the construction site
[related to items no. 31 and 115 under Appendix 1 to the EMP]:
From the 2nd quarter of 2018 to the 3rd quarter of 2020 cases of insufficient Contractor's care in the aforementioned scope (e.g. chaotic storage of construction materials, leaving the waste outside of containers, etc.) were identified. The Contractor has been called to remove the identified inconsistencies.
- 9) Stoppage of vehicles and machines at sites without surface protection
[related to items no. 37, 69, 73 and 54 under Appendix 1 to the EMP]:
From the 1st quarter of 2018 to the 4th quarter of 2019 cases of vehicles' and construction machines' stoppage on sites without proper protection for the ground and water environment against polluting were identified. The Engineer has been drawing the Contractor's attention to the necessary application of designated – meeting the conditions determined under the EMP – sites only.
- 10) Storage of construction materials underneath tree crowns
[related to item no. 38 under Appendix 1 to the EMP]:
From the 1st quarter of 2018 to the 4th quarter of 2020 sustained cases of construction materials' storage within the projection of crowns of trees, which shall not be logged, were identified. The Engineer has been drawing the Contractor's attention to the aforementioned inconsistencies and to the risk of damaging arborescent plants associated with them on an ongoing basis. Adverse impact of the aforementioned situation on the health conditions of trees and shrubs was not identified within the reporting period.
- 11) Improper storage of construction materials
[related to items no. 39 and 115 under Appendix 1 to the EMP]:
From the 1st quarter of 2018 to the 4th quarter of 2019 cases of storing the construction materials against the requirements of the EMP were identified (e.g. too high piles of materials posing a risk of tipping over or sliding, no proper protection against moistening, no protection against effects of grass burning, and others). The Contractor has been called to remove the identified inconsistencies.

12) Improper storage of hazardous materials

[related to items no. 40, 73, 54 and 115 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 3rd quarter of 2019 cases of no proper protection for hazardous materials stored within the construction site were identified. The Contractor has been called to remove the identified inconsistencies.

13) Improper handling of waste

[related to items no. 41, 73 and 54 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 4th quarter of 2020 cases of waste management against the requirements of the EMP were identified (e.g. presence of waste beyond designated sites, no waste containers, no proper waste segregation). The Contractor has been called to remove the identified inconsistencies.

14) Improper handling of hazardous waste

[related to items no. 42, 73 and 115 under Appendix 1 to the EMP]:

In the 3rd and in the 4th quarter of 2018 improper handling of soil polluted with diesel substances, caused by theft of excavator's parts in July 2018, was identified – see: description referring to the pollution of ground environment given in item 21 below. The collected polluted soil was stored against the requirements under the EMP (no required tight container, improper equipment of and protection for the storage site), and the Contractor has not provided the Engineer with a waste transfer sheet. The Engineer admonished the Contractor and called it for provision of the waste transfer sheet. The sheet has been submitted to the Engineer just in December 2018.

15) Insufficient number of portable toilets within the construction site

[related to items no. 44 and 115 under Appendix 1 to the EMP]:

In the 2nd and in the 3rd quarter of 2018 cases of not providing sufficient number of portable toilets for employees on the construction site were identified. The Contractor has been called by the Engineer to adapt the number of toilets to the current progress of works on an ongoing basis.

16) Defects in the documentation for construction equipment

[related to items no. 53, 120 and 115 under Appendix 1 to the EMP]:

From the 2nd quarter of 2018 to the 2nd quarter of 2019 and from the 1st to the 3rd quarter of 2021 cases of the Contractor using equipment not meeting all formal and technical requirements necessary for allowing it for the use were identified. The Engineer admonished the Contractor about necessary application of the equipment meeting all of the requirements in the aforementioned scope only.

17) Provision of services to vehicles and machines beyond designated locations

[related to items no. 55, 56, 122, 73 and 54 under Appendix 1 to the EMP]:

In the 2nd and in the 3rd quarter of 2018 cases of repairs and fueling of construction machines within the embanked area of Koprzywianka – on sites without proper protection for the ground and water environment – were identified. The Engineer reminded the Con-

tractor about a ban for such practices resulting from the conditions determined under the EMP.

- 18) Excessive emission of dust within the construction site and its surroundings [related to items no. 59, 60, 62, 54 and 115 under Appendix 1 to the EMP]:

The Contractor has been undertaking actions to protect surroundings of the work site and access roads against emission of dust, in accordance with the conditions determined in the EMP. Despite the actions undertaken by the Contractor, from the 1st quarter of 2018 to the 2nd quarter of 2019 and in the 2nd and in the 3rd quarter of 2020 cases of increased emission of dust from wheels of vehicles and construction machines were identified within the construction site and at access roads in vicinity of the work site. The Engineer has been drawing the Contractor's attention to the necessary reduction of dust emission, e.g. through reducing the speed of vehicles within the construction site and systematic sprinkling of the technological roads, on an ongoing basis.

- 19) Issues with protection of collected top-soil's heaps against devastation [related to items no. 67 and 68 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 3rd quarter of 2020 numerous cases of inconsistencies at storage of top-soil to be re-embedded (e.g. no signing for heaps of top-soil, passing over parts of top-soil heaps, temporary storage of construction materials on top-soil heaps, polluting the top-soil with non-top-soil, and others). The Engineer has regularly been admonishing the Contractor through ordering of improvement for protection of the top-soil, instructing the employees, and recommending supplementation of signing for the heaps. In January 2019 the Engineer called the Contractor for provision of an updated Detailed Quality Assurance Plan on the removal of the top layer of soil. The Contractor provided that document for the Engineer's acceptance in March and (after re-updating) in July 2019.

- 20) Improper storage of lubricants and fuel [related to items no. 72, 73 and 115 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 1st quarter of 2019 and in the 2nd quarter of 2020 cases of storing lubricants and fuel against the rules determined in the EMP (e.g. missing drip trays, and others) were identified. The Engineer called the Contractor to remove identified inconsistencies.

- 21) Pollution of the ground environment with diesel derivatives [related to items no. 73 and 54 under Appendix 1 to the EMP]:

In the 3rd quarter of 2018 (in July 2018), due to a theft of parts of the excavator left on site at Subtask 4, there was a small leakage of diesel substances (fuel) to the ground. The Contractor was protecting the event site on an ongoing basis using absorbents and removed the polluted soil. The event described has neither caused pollution of surface water nor led to a serious hazard to the environment.

In the 1st quarter of 2019 (in January 2019) within the site at Subtask 5 there was a small leakage of diesel substances to the ground (leakage from an untight pump unit).

The Contractor was protecting the event site on an ongoing basis using absorbents and removed the polluted soil. The event described has neither caused pollution of surface water nor led to a serious hazard to the environment.

22) Pollution of soil and water environment with non-diesel derivatives

[related to items no. 73 and 54 under Appendix 1 to the EMP]:

From the 1st to the 4th quarter of 2018 cases of non-diesel substances leaks were identified – local leaks of bentonite leaven to the ground during the works associated with development of anti-seepage shutter within the embanked area of Koprzywianka (Subtask 4) and at Subtask 3. The Contractor was removing the leaks and improving tightness of piping transporting the leaven to embedding sites on an ongoing basis. Considering chemical composition of the aforementioned leaven and the scale of identified leaks, events described did not form a serious hazard to the ground and water environment in vicinity of the work site.

In the 1st quarter of 2019 cases of polluting surface water with non-diesel substances were identified – local stirring of water in Koprzywianka (at the work site for Subtask 4) due to the transfer of soil within the embanked area and to the discharge of rainfall water polluted with sediments from the embanked area to the river. After intervention of the Engineer the Contractor removed spots of soil sediments' discharge to the river. Considering chemical composition of the aforementioned pollutions and a small scale of identified emission of sediments to the river-bed, events described did not form a serious hazard to the ground and water environment in vicinity of the work site.

23) Storage of top-soil in a direct neighborhood of the river-bed

[related to item no. 76 under Appendix 1 to the EMP]:

From the 1st quarter of 2018 to the 4th quarter of 2019 in a part of work site at Subtask 4 (e.g. in upstream sections of the right Koprzywianka embankment – from the bridge at Sośniczany-Skotniki route) top-soil heaps were stored in a direct neighborhood of the river-bed, due to the small width of the available embanked-area. The Engineer has on an ongoing basis been drawing the Contractor's attention to the related potential risk of spoil sliding to the river-bed. The Contractor has been providing periodical stability inspections for heaps of top-soil on the riverside. Within the time of Contract implementation cases of impact of the aforementioned spoil on the level of water in the river were not identified.

24) Application of construction materials not compliant with requirements of the Contract

[related to item no. 77 under Appendix 1 to the EMP]:

In the 3rd quarter of 2018 it was identified that a part of spoil to be applied for construction of the embankments at Subtask 3 does not come from a licensed purchase, but is transferred from excavations made within the framework of the works at Subtask 1. The Engineer called the Contractor to remove the construction materials not compliant with the requirements under the Contract.

- 25) Not observing conditions for limitation of noise emission in the neighborhood of acoustic protection sites
[related to items no. 82 and 83 under Appendix 1 to the EMP]:
In the 3rd quarter of 2018 cases of construction materials deliveries in the neighborhood of developed areas at night were identified (in reference to Subtask 4). After intervention of the Employer and of the Engineer the Contractor stopped the aforementioned actions.
- 26) Damages to and leakiness of protective fences for amphibians
[related to items no. 86 and 93 under Appendix 1 to the EMP]:
From the 2nd quarter of 2018 to the 2nd quarter of 2019 and in the 1st and in the 2nd quarter of 2020 cases of local damage to and leakiness of protective fences for amphibians within the area of Subtasks 5 and 6 were identified. The Contractor was called to repair the damages identified on an ongoing basis.
- 27) Not observing the ban to start bonfires on the construction site
[related to items no. 110 and 115 under Appendix 1 to the EMP]:
In the 1st and in the 3rd quarter of 2018 cases of not observing the ban to start bonfires within the construction site (burning remnants of branches left after logging of trees and cases of local grass burning due to careless burning of technological boreholes out in elements of sheet-piling) were identified. The Engineer called the Contractor to secure the proper supervision over observance of the conditions determined in the EMP.
- 28) Improper condition of construction site's signing, including defects in protecting and signing of dangerous zones
[related to items no. 114, 117, 124, 136 and 115 under Appendix 1 to the EMP]:
From the 1st quarter of 2018 to the 4th quarter of 2020 cases of missing signing and improper protection of sites that may pose risk to the health and life of people (e.g. unloading zone for sheet piles, sites with a risk of falling from height, deep excavations, sites with a risk of cutting) were identified. The Contractor was called to remove the inconsistencies identified.

Furthermore, cases of missing information boards and other signing for the construction site or their bad condition were identified within the aforementioned period. The Contractor was improving the inconsistencies identified on an ongoing basis.
- 29) Accidents on the construction site
[related to item no. 115 under Appendix 1 to the EMP]:
From the 3rd quarter of 2018 to the 1st quarter of 2019 there were some accidents suffered by employees of the Contractor within the work site at Subtasks 4 and 1 (in July 2018, in September 2018, in January 2019, and in March 2019). Detailed information on the aforementioned events were given in chapter 6.6 of this *Report*.
- 30) Other issues related to H&S on the construction site
[related to item no. 115 under Appendix 1 to the EMP]:
From the 1st quarter of 2018 to the 4th quarter of 2020 cases of H&S issues described in this chapter under items 2, 3, 5-8, 11, 12, 14-16, 18, 20, 27-29 and 31 were identified.

Furthermore, from the 2nd quarter of 2018 to the 4th quarter of 2019 and in the 3rd quarter of 2020 other cases of insufficient Contractor's care for securing and keeping safety for the works performed (e.g. negligence referring to the safety during offloading, not observing H&S regulations during the works underneath active power lines, improper protection of electric wires, incomplete equipment of scaffoldings, defects in required certification for operators of the equipment and the construction machines, defects in providing the employees with protective clothes, unsatisfactory access to energy meals and potable water for the employees, insufficient number of and / or defects in furnishing for welfare units, and others) were also identified. Each time the Engineer was calling the Contractor to remove the inconsistencies identified.

31) Application of machines and tools against their purpose

[related to items no. 121 and 115 under Appendix 1 to the EMP]:

From the 2nd quarter of 2018 to the 1st quarter of 2019 cases of using the construction equipment against its purpose were identified (in reference to e.g. inconsistencies during the offloading, etc.). The Contractor has been several times instructed about necessary improvements to the identified inconsistencies.

32) Not keeping the deadline for submission of the Waste Management Plan for the Engineer's acceptance

[related to item no. 127 under Appendix 1 to the EMP]:

In the 4th quarter of 2017 the Contractor was carrying out the works on development of the Waste Management Plan (WMP), but it did not complete those works and did not file a document for the Engineer's acceptance. Therefore, the Contractor did not keep the binding deadline of 42 days from the Commencement Date (i.e. from 11/17/2017). The measures associated with developing and accepting the WMP have been completed in the 1st quarter of 2018.

33) Delay in the formal acceptance of the expert archaeologist in the Contractor's team

[related to item no. 135 under Appendix 1 to the EMP]:

In the 1st quarter of 2018 the Contractor secured ongoing archaeological supervision for the construction site, but in the first month of the quarter the archaeological supervising expert has not been formally notified for the Engineer's approval. The Engineer reminded the Contractor about an obligation of formal notification of the expert for the Engineer's acceptance. The expert archaeologist has been formally notified and approved by the Engineer just in February 2018.

5 IMPLEMENTATION STATUS FOR MONITORING MEASURES UNDER APPENDIX 2 TO THE EMP

In accordance with contents of Appendix 2 to the EMP for Contract 3B.1, units responsible for implementation of monitoring measures listed in Appendix 2 to the EMP are as follows: **the Contractor (140 measures:** items no. 1-140 under Appendix 2 to the EMP), **the Engineer (140 measures:** items no. 1-140 under Appendix 2 to the EMP), and **the Investor (1 measure:** item no. 138 under Appendix 2 to the EMP). In total, the EMP for Contract 3B.1 envisages implementation of 140 monitoring measures¹, and all of the measures shall be implemented within the reporting period.

5.1 ACTIONS OF THE CONTRACTOR

Within the reporting period the Contractor was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Engineer and of the Investor.

- a) Within the reporting period the Contractor has been implementing 140 (100%) monitoring measures, including the following:
 - 140 (100%) measures were implemented in the scope required within the reporting period (items no. 1-140 under Appendix 2 to the EMP);
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) cases of missing implementation for monitoring measures assigned to the Contractor within the reporting period were not identified.

Monitoring measures were implemented by the Contractor at participation of experts from the Contractor's Environmental team, including the environmental supervision coordinator and the H&S coordinator.

5.2 ACTIONS OF THE ENGINEER

Within the reporting period the Engineer was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's and Investor's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Contractor and of the Investor.

¹ Those measures referred to the implementation monitoring for particular mitigation measures given in Appendix 1 to the EMP, contents of which have been quoted in the *Check List* forming *Appendix no. 1* to this report.

- a) Within the reporting period the Engineer has been implementing 140 (100%) monitoring measures, including the following:
- 140 (100%) measures were implemented in the scope required within the reporting period (items no. 1-140 under Appendix 2 to the EMP);
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) cases of missing implementation for monitoring measures assigned to the Engineer within the reporting period were not identified.

Furthermore, within the reporting period the Engineer was also supervising implementation of 140 monitoring measures assigned, in accordance with Appendix 2 to the EMP, to the Contractor.

Monitoring measures and supervising measures in the range referring to the EMP were implemented by the Engineer at participation of selected experts of the Engineer's environmental team (composition of the team has been given in chapter 4.1).

5.3 ACTIONS OF THE INVESTOR

Within the reporting period the Investor was implementing measures associated with implementation monitoring for mitigation measures, as described in Appendix 2 to the EMP. The monitoring was implemented through the following: (i) verification of requirements determined under the EMP for the current stage of works; (ii) verification of Contractor's and Engineer's documents related to implementation of conditions under the EMP; (iii) ongoing inspections on site; (iv) actions listed under Appendix 2 to the EMP; and (v) ongoing establishments with representatives of the Contractor and of the Engineer.

- a) Within the reporting period the Investor has been implementing 1 (0.7%) monitoring measure, including the following:
- 1 (0.7%) measure was implemented in the scope required within the reporting period (item no. 138 under Appendix 2 to the EMP);
 - in case of none of the measures issues and / or inconsistencies associated with their implementation were identified.
- b) cases of missing implementation for monitoring measures assigned to the Investor within the reporting period were not identified.

Furthermore, within the reporting period the Investor was also supervising implementation of 140 monitoring measures assigned, in accordance with Appendix 2 to the EMP, to the Contractor and to the Engineer.

Monitoring measures and supervising measures in the range referring to the EMP were implemented by the Investor at participation of the technical and environmental issues expert of the PIO.

5.4 ISSUES REFERRING TO IMPLEMENTATION OF MONITORING MEASURES LISTED IN APPENDIX 2 TO THE EMP

In accordance with information presented in monthly reports and in quarterly reports on implementation of measures determined in the EMP, issues with implementation of the monitoring measures listed in Appendix 2 to the EMP for Contract 3B.1 were not identified within the reporting period.

6 OTHER ACTIONS AND EVENTS RELATED TO THE ENVIRONMENT, LOCAL SOCIETY, HEALTH AND SAFETY

6.1 ACTIONS OF THE CONTRACTOR

Within the reporting period the Contractor has been carrying out preparation works and construction works within the framework of Contract 3B.1, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Contractor.

Furthermore, within the reporting period the Contractor was implementing e.g. the following other measures referring to Contract 3B.1 and related to the environment, local society, health and safety:

- representatives of the Contractor attended to information meetings for the local society, including owners of plots neighboring the work site for Contract 3B.1;
- representatives of the Contractor attended to working meetings with representatives of the local authorities;
- representatives of the Contractor attended to some missions of the World Bank;
- due to a threat of spreading coronavirus infections causing COVID-19 disease, from the first to the fourth quarter of 2020 the Contractor was providing the Engineer with weekly reports on situation referring to that threat for Contract 3B.1.

6.2 ACTIONS OF THE ENGINEER

Within the reporting period the Engineer was supervising preparation works and construction works carried out within the framework of Contract 3B.1, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Engineer.

Furthermore, within the reporting period the Engineer was implementing e.g. the following other measures referring to Contract 3B.1 and related to the environment, local society, health and safety:

- representatives of the Engineer attended to information meetings for the local society;
- representatives of the Engineer attended to working meetings with representatives of the local authorities;
- representatives of the Engineer attended to missions of the World Bank;
- from the third quarter of 2019 to the first quarter of 2020 the Engineer along with the Investor were implementing measures to achieve payment of dues by the Contractor to companies performing tasks for Contract 3B.1;
- due to a threat of spreading coronavirus infections causing COVID-19 disease, from the first to the fourth quarter of 2020 the Engineer was monitoring the situation on Contract 3B.1, due to the epidemic threat, and was providing the Investor with subsequent reports referring to the aforementioned threat.

6.3 ACTIONS OF THE INVESTOR

Within the reporting period the Investor was carrying out its activities associated with implementation of Contract 3B.1, including e.g. implementation of particular measures determined in the Environmental Management Plan, as assigned to the Investor, and was supervising the measures implemented by the Contractor and by the Engineer.

Furthermore, within the reporting period the Investor was implementing e.g. the following other measures referring to Contract 3B.1 and related to the environment, local society, health and safety:

- representatives of the Investor attended to information meetings for the local society;
- representatives of the Investor attended to working meetings with representatives of the local authorities;
- representatives of the Investor attended to missions of the World Bank;
- from the third quarter of 2019 to the first quarter of 2020 the Investor along with the Engineer were implementing measures to achieve payment of dues by the Contractor to companies performing tasks for Contract 3B.1;
- due to a threat of spreading coronavirus infections causing COVID-19 disease, from the first to the fourth quarter of 2020 the Investor was monitoring the situation on Contract 3B.1, due to the epidemic threat, including e.g. analyzing of further reports on the aforementioned threat, as provided by the Engineer.

6.4 OTHER ACTIONS

Not applicable to the reporting period.

6.5 EXCEPTIONAL EVENTS, THREATS AND CATASTROPHES

Not applicable to the reporting period.

6.6 ACCIDENTS

2.6.1 Accidents with participation of Contractor's employees

Within the reporting period the following accidents suffered by employees of the Contractor happened on the work site for Contract 3B.1:

- on 07/17/2018 within the work site at Subtask 4 a Contractor's employee participated in an accident. During opening of a parcel with steel sheet piles one of the employees was hardly hit with square timber in the bottom part of chin and in the neck, due to breaking off of a sling. The injured person was transported to the hospital in Kielce – his life was not in danger. On 08/22/2018 the Contractor provided the Engineer with an accident report referring to the aforementioned event. Due to the fact that the Contractor provided the Engineer with information about the accident on 07/19/2018, the Engineer has admonished the Contractor and reminded about binding rules on notifying about accidents associated with implementation of the Contract. On 10/02/2018 the Contractor provided

the Engineer with an updated accident report referring to the aforementioned event, as presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for October 2018.

- on 11/13/2018 within the work site at Subtask 4 a Contractor's employee participated in an accident – twisting an ankle during leaving of a welfare unit. The Contractor's note with information about the aforementioned event was presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for November 2018.
- on 11/28/2018 within the work site at Subtask 4 a Contractor's employee participated in an accident – hand injured during replacement of a bucket in an excavator. The Contractor's note with information about the aforementioned event was presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for November 2018.
- on 01/17/2019 within the work site at Subtask 4 a Contractor's employee participated in an accident (chest bruised due to slipping and hitting corner of a truck's hopper during the offloading). On 01/22/2019 the Contractor received a statement of the employee on the aforementioned event, and on the same day forwarded the information about the accident to the Engineer. The Contractor's note with information about the aforementioned event was presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for January 2019. On 06/06/2019 the Contractor provided the Engineer with an updated accident report referring to the aforementioned event, as presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for June 2019.
- on 03/22/2019 within the work site at Subtask 1 a Contractor's employee participated in an accident (suspected leg tendon retraction, due to performing welding works in an uncomfortable position). On 03/23/2019 (Saturday) the Contractor received a statement of the employee on the aforementioned event, and on 03/25/2019 (Monday) forwarded the information about the accident to the Engineer. The Contractor's note with information about the aforementioned event was presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for March 2019. On 06/06/2019 the Contractor provided the Engineer with updated accident report referring to the aforementioned event, as presented in Appendix no. 3 to the *Monthly Report on EMP Implementation* for June 2019.

2.6.2 Accidents with participation of people authorized to access the site

Not applicable to the reporting period.

2.6.3 Accidents with participation of outsiders

Not applicable to the reporting period.

6.7 SECURING CONDITIONS OF PAYMENT AND WORK FOR THE PERSONNEL

Within the reporting period the Contractor was securing proper conditions of payment and work for the personnel, in accordance with binding provisions of the labour law in Poland.

6.8 PREVENTING CASES OF SEXUAL HARASSMENT AND MOBBING

Events associated with cases of sexual harassment and mobbing have not taken place within the reporting period.

7 SUMMARY

This report presents a summary on implementation of the measures determined in the Environmental Management Plan (EMP) for Works Contract 3B.1 *Flood Protection Sandomierz* within the framework of the *Odra-Vistula Flood Management Project (OVFMP)*.

The report refers to the measures implemented in the following period:

- from the Commencement Date for the Works under 3B.1 (i.e. **from November 17, 2017**);
- to the completion date for the works deemed as essential, as results from the Time for Completion for the aforementioned contract (i.e. **to December 31, 2020**).

Within the reporting period the Contractor was carrying out the construction works in the range given in the contract (see: description in chapter 1), including e.g. implementation of 132 mitigation measures determined in the EMP (see: description in chapter 4.1), monitoring of implementation for all of the 140 mitigation measures determined in the EMP (see: description in chapter 5.1), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.1).

Within the reporting period the Engineer was supervising the construction works in progress within the framework of Contract 3B.1, including e.g. implementation of the measures determined in the Environmental Management Plan in the range assigned to the Engineer (see: description in chapter 4.2), monitoring of the implementation status for 140 mitigation measures determined in the EMP (see: description in chapter 5.2), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.2).

Within the reporting period the Investor was implementing measures assigned to it in the range of Contract 3B.1 implementation, including e.g. implementation of particular measures determined in the Environmental Management Plan in the range assigned to the Investor (see: description in chapter 4.3), monitoring of the implementation status for 1 mitigation measure determined in the EMP (see: description in chapter 5.3), and participation in other events referring to the environment, local society, and health and safety (as listed in chapter 6.3).

As a result of the monitoring measures implemented by the Contractor, by the Engineer, and by the Investor, it was identified within the reporting period that:

- a) 132 out of 140 mitigation measures listed in Appendix 1 to the EMP were implemented, including the following:
 - issues with implementation were not identified in case of 78 measures;
 - issues and / or inconsistencies associated with implementation were identified in case of 54 measures (described in chapter 4.4).
- b) 8 out of 140 mitigation measures listed in Appendix 1 to the EMP were not implemented (it was not necessary to implement the aforementioned measures within the reporting period).

- c) 140 out of 140 monitoring measures listed in Appendix 2 to the EMP were implemented, including the following:
- issues and / or inconsistencies associated with implementation were not identified in case of any of the measures.

The Check List referring to implementation of the mitigation measures and of the monitoring measures listed in Appendix 1 and in Appendix 2 to the EMP, respectively, within the reporting period, was presented in Appendix no. 1 to this *Report*.

8 SOURCE MATERIALS

1. *Environmental Management Plan for Contract 3B.1 Flood Protection Sandomierz.* Świętokrzyski Board of Amelioration and Hydraulic Structures in Kielce. Kielce, October 2016.
2. *Progress Reports* provided by the Contractor for Contract 3B.1 in subsequent months of the reporting period.
3. *Monthly Reports and Quarterly Reports on EMP Implementation* for Contract 3B.1, as provided by the Engineer in subsequent months / quarters of the reporting period (developed within the framework of Consulting Services Contract no. 5.2 *Design and Construction Supervision. Project Management, Technical Assistance and Training, Technical Support for the Project and Strengthening of PIU's Institutional Capacity*).

9 LIST OF APPENDICES

Appendix no. 1. Check List for implementation of the measures listed in Appendix 1 and 2 to the EMP for Contract 3B.1.