

PHOTO DOCUMENTATION

Appendix no. 2

to the Final Report on implementation of measures determined in EMP
for the Contract 3A.1 – Works Contract 3A.1/2

Odra-Vistula Flood Management Project

OVFMP Subcomponent	3A Flood Protection of Upper Vistula Towns and Cracow
Works Contract Task	3A.1/2 Modernization of Vistula embankments in Cracow – Section 3
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 22. Marszałka J. Piłsudskiego Street, 31-109 Cracow, Poland
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This document – forming **Appendix no. 2** to the *Final Report on implementation of measures determined in the Environmental Management Plan for Contract 3A.1/2* (reporting period: February 15, 2021 – September 1, 2023), presents a photo documentation regarding implementation of the EMP.



Fig. 1. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.1*, status in the first decade of February 2021 (upstream view).



Fig. 2. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.2a*, status in the first decade of February 2021 (upstream view).



Fig. 3. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.2b*, status in the first decade of February 2021 (upstream view).



Fig. 4. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.3* – upper part, status in the first decade of February 2021 (upstream view).



Fig. 5. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.3* – lower part, status in the first decade of February 2021 (upstream view).



Fig. 6. Site condition in the first quarter of the works implementation period – the right Vistula embankment within *Section 3.4*, status in the first decade of February 2021 (upstream view).



Fig. 7. Construction site after tree felling
– the right Vistula embankment within *Section 3.4*,
status in the third decade of February 2021 (upstream view).



Fig. 8. Cleaning up after felling trees
– the right Vistula embankment within *Section 3.2b*,
status in the third decade of February 2021 (downstream view).



Fig. 9. Site facilities in the area beyond the right Vistula embankment – the right bank of the Vistula within *Section 3.4*, status in the third decade of July 2021 (view towards the west).



Fig. 10. Storage yard in the area beyond the right Vistula embankment – the right bank of the Vistula within *Section 3.4*, status in the third decade of September 2021 (upstream view).



Fig. 11. Marking of the construction site
– the right Vistula embankment within *Section 3.3*,
status in the third decade of June 2021 (downstream view).



Fig. 12. Marking of the construction site
– the right Vistula embankment within *Section 3.1*,
status in the second decade of March 2021 (downstream view).



Fig. 13. Marking of public road in the vicinity of the construction site
– the right Vistula embankment within *Section 3.4*,
status in the second decade of April 2021 (downstream view).



Fig. 14. Marking of public road in the vicinity of the construction site
– the right Vistula embankment within *Section 3.4*,
status in the first decade of April 2022 (downstream view).



Fig. 15. Protection of hazardous sites
– the right bank of the Vistula within *Section 3.4*,
status in the third decade of April 2021 (upstream view).



Fig. 16. Protection of hazardous sites
– the right Vistula embankment within *Section 3.3*,
status in the third decade of July 2021 (downstream view).



Fig. 17. Protection of hazardous sites under the power line
– the right Vistula embankment within *Section 3.3*,
status in the third decade of July 2021 (upstream view).



Fig. 18. Protection of hazardous sites under the power line
– the right Vistula embankment within *Section 3.4*,
status in the third decade of September 2022 (downstream view).



Fig. 19. Protection of hazardous sites in the vicinity of residential buildings – the right Vistula embankment within *Section 3.3*, status in the third decade of March 2023 (upstream view).



Fig. 20. Protection of hazardous sites in the vicinity of residential buildings – the right Vistula embankment within *Section 3.3*, status in the third decade of June 2023 (downstream view).



Fig. 21. Protection of trees and shrubs not intended to felling
– the right Vistula embankment within *Section 3.1*,
status in the second decade of April 2022 (downstream view).



Fig. 22. Protection of trees and shrubs not intended to felling
and preventive trimming of tree branches
– the right Vistula embankment within *Section 3.2a*,
status in the second decade of April 2022 (upstream view).



Fig. 23. Protection of trees and shrubs not intended to felling
– the right Vistula embankment within *Section 3.2b*,
status in the third decade of March 2022 (downstream view).



Fig. 24. Protection of the tree stand within the boundaries of Fort 50a Lasówka
(facility entered into the register of monuments)
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of January 2023 (downstream view).



Fig. 25. No impact of works on the condition of natural habitats in the Vistula oxbow lake near the town of Brzegi – the right Vistula embankment within *Section 3.4*, status in the third decade of June 2022 (downstream view).



Fig. 26. Renovated historic chapel in the embanked area of Vistula – the right bank of the Vistula within *Section 3.3*, status in the third decade of August 2023 (downstream view).



Fig. 27. Keeping public roads clean in the vicinity of the construction site – the right bank of the Vistula within *Section 3.4*, status in the second decade of April 2023 (view towards the west).



Fig. 28. Keeping public roads clean in the vicinity of the construction site – the right bank of the Vistula within *Section 3.4*, status in the third decade of November 2022 (downstream view).



Fig. 29. Removal of a top soil layer
– the right Vistula embankment within *Section 3.4*,
status in the first decade of July 2022 (upstream view).



Fig. 30. Removal of a top soil layer
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of July 2021 (downstream view).



Fig. 31. Protection of top-soil piles
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of April 2021 (upstream view).



Fig. 32. Protection of top-soil piles
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of June 2021 (downstream view).



Fig. 33. Construction of a cement-bentonite barrier along the base of embankment – the right Vistula embankment within *Section 3.2a*, status in the third decade of June 2021 (downstream view).



Fig. 34. Installation for producing a cement-bentonite mixture – the right bank of the Vistula within *Section 3.3*, status in the third decade of June 2021 (upstream view).



Fig. 35. Construction of a sheet piling to protect the embankment culvert during reconstruction
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of September 2021 (upstream view).



Fig. 36. A sheet piling protecting the embankment culvert during reconstruction
– the right Vistula embankment within *Section 3.4*,
status in the second decade of May 2021 (downstream view).



Fig. 37. Reconstruction of the embankment culvert
– the right Vistula embankment within *Section 3.4*,
status in the third decade of May 2021 (downstream view).



Fig. 38. Reconstruction of the embankment culvert
– the right Vistula embankment within *Section 3.4*,
status in the third decade of July 2021 (upstream view).



Fig. 39. Construction of a retaining wall
– the right Vistula embankment within *Section 3.2a*,
status in the second decade of November 2021 (downstream view).



Fig. 40. Construction of a retaining wall
– the right Vistula embankment within *Section 3.3*,
status in the first decade of May 2022 (downstream view).



Fig. 41. Works related to the reconstruction of a gas pipeline network
– the right Vistula embankment within *Section 3.3*,
status in the third decade of February 2022 (view towards the embanked area).



Fig. 42. Works related to the reconstruction of a gas pipeline network
– the right Vistula embankment within *Section 3.3*,
status in the first decade of March 2022
(view towards the area beyond the embankment).



Fig. 43. Transport of earth masses for the reconstruction of a flood embankment – the right Vistula embankment within *Section 3.2a*, status in the first decade of July 2022 (downstream view).



Fig. 44. Transport of earth masses for the reconstruction of a flood embankment – the right Vistula embankment within *Section 3.2b*, status in the third decade of July 2022 (downstream view).



Fig. 45. Shaping the slopes of the flood embankment
– the right Vistula embankment within *Section 3.2a*,
status in the third decade of March 2022 (downstream view).



Fig. 46. Shaping the slopes of the flood embankment
– the right Vistula embankment within *Section 3.2a*,
status in the first decade of September 2022 (downstream view).



Fig. 47. Leveling the slopes of the flood embankment
– the right Vistula embankment within *Section 3.3*,
status in the third decade of February 2022 (upstream view).



Fig. 48. Leveling the slopes of the flood embankment
– the right Vistula embankment within *Section 3.4*,
status in the first decade of September 2022 (downstream view).



Fig. 49. Placement of bentomat on the slope of the flood embankment – the right Vistula embankment within *Section 3.3*, status in the first decade of September 2022 (upstream view).



Fig. 50. Placement of bentomat on the slope of the flood embankment – the right Vistula embankment within *Section 3.2a*, status in the third decade of September 2021 (downstream view).



Fig. 51. Covering slopes of the flood embankment with a top-soil layer – the right Vistula embankment within *Section 3.2a*, status in the third decade of June 2022 (downstream view).



Fig. 52. Covering slopes of the flood embankment with a top-soil layer – the right Vistula embankment within *Section 3.3*, status in the third decade of May 2023 (downstream view).



Fig. 53. Construction of a road on the crown of the flood embankment – the right Vistula embankment within *Section 3.2a*, status in the second decade of October 2022 (downstream view).



Fig. 54. Construction of a road on the crown of the flood embankment – the right Vistula embankment within *Section 3.1*, status in the third decade of March 2023 (downstream view).



Fig. 55. Growth of grasses sown on the slope of the flood embankment – the right Vistula embankment within *Section 3.3*, status in the second decade of July 2023 (upstream view).



Fig. 56. Growth of grasses sown on the slope of the flood embankment – the right Vistula embankment within *Section 3.1*, status in the third decade of November 2022 (downstream view).



Fig. 57. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.1*, status in the third decade of September 2023 (downstream view).



Fig. 58. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.2a*, status in the third decade of September 2023 (downstream view).



Fig. 59. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.2b*, status in the third decade of September 2023 (downstream view).



Fig. 60. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.3* – upper part, status in the third decade of September 2023 (downstream view).



Fig. 61. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.3* – lower part, status in the third decade of September 2023 (downstream view).



Fig. 62. Site condition in the last quarter of the works implementation period – the right Vistula embankment within *Section 3.4*, status in the third decade of September 2023 (downstream view).