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PROGRAMUL OPERATIONAL REGIONAL TRANSPORT
TRANS
Mobilitate în România. Conexiuni cu Europa.

Project: MONITORING THE ENVIRONMENTAL IMPACT OF THE WORKS REGARDING THE IMPROVING OF THE NAVIGATION CONDITIONS ON THE DANUBE RIVER BETWEEN CALARASI AND BRAILA, km 375-175
PHASE II *MONTHLY REPORT NO.44: 1–31 December 2014*

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 44	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 44
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> ○ Elaboration of the addresses sent to AFDJ Galati ○ Participation at the progress meeting 	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> ○ Checking the continuous monitoring stations, velocity measurements and bathymetry ○ Checking the monitoring stations for sturgeons ○ Checking the sampling campaigns ○ Checking the building site activities 	
4	Coordination of the project implementation team and permanent monitoring of the progress of proposed activities for the reporting period	<ul style="list-style-type: none"> ○ Field visits for activities monitoring ○ Working meetings 	
5	Approval of monthly activity reports of the experts		
6	Checking and approving the documents elaborated in 44 th month of project activity		
7	Coordinate the completion of Interim Report 9		
8	Elaboration of the project activities program for the next period (1 - 31 January 2015)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.2. Expert position: WATER AND SOIL MONITORING EXPERT - Gina Ghiță

MONTHLY REPORT 1 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS	<ul style="list-style-type: none"> ▪ Preparation of sampling recipients (differently, according to chemical indicators) for water and sediments; ▪ Preparation of reagents to fix water samples in field conditions; ▪ Laboratory and field AMCs calibration; ▪ Preparation of reagents set for field and laboratory analysis 	<ul style="list-style-type: none"> ▪ Assurance of proper conditions for the sampling campaign
2.	SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS (08.12.2014; 11.12.2014)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, CP 02, CP10 ▪ The conformation to the geographical coordinates for each sampling point has been checked; ▪ The samples have been labeled; ▪ For each water and sediment sample has completed a registration bulletin for the sampling activity; ▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality; ▪ Water samples have been fixed according to actual standards to determine indicators in the laboratory 	<ul style="list-style-type: none"> ▪ 50 water samples ▪ 20 sediment samples
3.	SAMPLING CAMPAIGN FOR SOIL (11.12.2014)	<p>Soil samples were taken from the CP 01, CP 02, CP 10, CP 03 (A and B), CP 04 (A and B) and CP 07;</p> <ul style="list-style-type: none"> ▪ The conformation to the geographical coordinates for each sampling point has been checked ▪ samples were labeled; ▪ for each soil sample has completed a registration bulletin for the sampling activity; 	<ul style="list-style-type: none"> ▪ 38 soil samples
4.	PHYSICAL-CHEMICAL LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Conducting the specific standard procedures for analytical data quality assurance. 	<ul style="list-style-type: none"> ▪ Preliminary data regarding water and sediment quality
	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the monthly Report 44 ▪ Participation at the intermediary Report 9 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist2)

MONTHLY REPORT 01 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 44 campaign (5,12,18.12.2014)	For main critical points (CP01, CP02) and secondary (CP03,CP04,CP07)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no.41 (5,12,18.12.2014)	For main critical points (CP01, CP02) and secondary CP03, CP04, CP07	Preliminary values of the air quality indicators
3.	Data processing	Processing of the data measured in the field	Analysis bulletins
4.	Other activities	<ul style="list-style-type: none"> ○ Participation at the meetings of the project team, in order to plan the future activities ○ Contribution to the 44th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.44

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.4 Expert position: ICTHYOLOGIST 1 EXPERT - Sturgeons and barbell - CRISTEA VICTOR

MONTHLY REPORT 1 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Maintenance and data downloading: 05.12.2014 PC01, PC02 18.12.2014 PC10.	Has been downloaded the data from monitoring systems on Borcea, Bala, Caleia, Cravia and Old Danube branches, Has been realized activities of maintenance for the monitoring systems	Obtaining the data from the monitoring systems
2.	Collecting benthos samples from wintering sturgeons area 12, 18.12.2014	Has been prelevated samples from wintering habitats at Bala branch km 8.3 km, 7.6 km, 6.3 km and Borcea branch km 50,9	Sampling bulletins
3.	Velocity measuring in wintering habitats of sturgeons 05, 12, 18, 23.12.2014	Measurements were performed weekly to determine the velocity of the bottom surface and wintering habitats	Velocity centralizing
4.	Other activities	Contribution to Monthly Report no.44	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.6. Expert position: HYDROLOGY EXPERT - PhD eng. George POTERAȘ

MONTHLY REPORT 1 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in December 2014	Statistical processing of level, temperature and turbidity data recorded in December 2014 in automatic stations from CP01, CP02 and CP10	Statistical indicators, turbidity and temperature variation graphics, hodographs of the relative and absolute water level, water gradients, correlations between the automatic monitoring stations
2.	Contribution to the Monthly Report no 44	Data processing and interpretation	Hydrology subchapter elaboration for the hydromorphological monitoring activity and Annex 6.5

Expert,
PhD eng. George POTERAȘ

Project Leader,
PhD eng. Deák György



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.7. Expert position: HYDRAULIC SEDIMENTOLOGY EXPERT - Gh. Viorel UNGUREANU

MONTHLY REPORT

1 - 31 December 2014

No.	ACTIVITĂȚI	DESCRIERE	REZULTATE
1.	MONITORING CAMPAIGN (02-05, 08-12, 15-19, 22.12.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (02-05, 08-12, 15-19, 22.12.2014)	Measurements for flow and velocity in main critical points and on monitoring sections.	Unprocessed flow and velocity data
3.	MONITORING CAMPAIGN (02-05, 08-12, 15-19, 22.12.2014)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01	Unprocessed velocity data
4.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 44	Hydromorphology chapter and Annex 6.5

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.44: 1–31 December 2014

6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT- Florica Marinescu

MONTHLY REPORT 1 - 31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preparation for SAMPLING CAMPAIGN of phytoplankton	<ul style="list-style-type: none"> ▪ Preparation of reagents for samples fixation in field conditions; ▪ Preparing the necessary documents for „in field” samples registration 	Ensure the optimal conditions for conducting the sampling campaign
2.	Sampling campaign for phytoplankton (11.12.2014)	<ul style="list-style-type: none"> ▪ Specific activities for phytoplankton sampling from CP 03A, 03B CP, CP 04A, 04B CP, CP 07 ▪ Samples fixation according to standard in force for microscopic laboratory analysis ▪ Completion of bulletins for phytoplankton samples 	<ul style="list-style-type: none"> - 15 samples (left bank, center, right bank) - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Microscopic identification of phytoplanktonic organisms ▪ Quantitative microscopic analysis for algae units of phytoplankton 	Results of quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪ Making the list for phytoplankton species identified in collected samples ▪ Density and biomass computation for phytoplankton samples ▪ Sabrobic index and Simpson diversity index calculation for phytoplankton samples ▪ Results interpretation and graphic representation for quality data results from phytoplankton samples analysis 	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation in elaboration of the Monthly Report no. 44- Chapter: Monitoring of aquatic flora and fauna (except for ichthyofauna) 	Monthly Report no.44 - Chapter F

Expert,
Dr.biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 01-31 December 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OBSERVATION CAMPAIGN REGARDING PRESENCE / ABSENCE OF LUMBRICIDES (11.12.2014)	- It was monitored the presence / absence of lumbricides in soil samples taken from the locations of critical points: CP01, CP02, CP10, CP03 (A și B), CP04 (A și B) and CP07;	Observations regarding the presence / absence of lumbricides
2.	OTHER ACTIVITIES	- Preparing observation campaign - Evaluation of lumbricides distribution in monitored areas	

Expert,
Șerban Cecilia

Project Leader,
Dr. ing. DEÁK György



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6.3.14. Expert position: ANTHROPIC IMPACT MONITORING EXPERT - AMBRUS LASZLO (ecologist 1)

MONTHLY REPORT 1 - 31 December 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (05, 12, 18.12.2014)	<ul style="list-style-type: none"> ○ field campaign in CP01, CP02 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropisation level in the area of the building site; ○ checking the building site, including the materials used by constructor; ○ sites verification; 	<ul style="list-style-type: none"> - data - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 44; ○ Contribution to the Intermediar Report no. 9; ○ Program proposal for the next period activities; 	Monthly Report no. 44

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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6.3.16. Expert position: EXPERT ASSESSOR OF THE MONITORING RESULTS - Marian TUDOR

MONTHLY REPORT 1 - 31 December 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Intermediar Report 10	Data regarding aquatic and terrestrial ecosystems	Centralization tables
2	Data processing regarding aquatic and terrestrial ecosystems	Establishing the primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variation

Expert assessor,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 44: 1 – 31 December 2014

6.3.17 Expert position: 3D MODELLING EXPERT - Prof.PhD. HELMUT HABERSACK

**MONTHLY REPORT
01 - 31 December 2014**

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Improving the model and numerical simulation of discharges distribution on the arms in the area of critical point 02, in situations observed at high and medium discharges.	The model was improved by introducing the structure options on the part of dam and at ditch. Delft3D model parameters were adjusted to a set of medium and high discharges, with different slopes of the water flow. Numerical simulations performed have provided discharges distributions and other results for situations with or without flow over the dam.	Files with results of numerical simulations.
2.	Modelling effects of the watercourses on sediment transport trends in the short term in the area of critical point 10, at some medium and low reference discharges.	Calculations regarding local transport of sediment in the critical point 10 were continued for situations with different reference discharges. Results of Delft3D numerical simulation were analysed to make comparisons between trends of possible effects on short-term of watercourses on the Danube riverbed at medium reference discharges and low discharge.	Results of the numerical simulations.
3.	Inserting data for modelling, on the basis of the measurements.	The processing activities of measured data on the Danube and preparing of data sets for modelling continued.	Preparing data, on the basis of the measurements.
4.	Other activities	Participating in development of monthly Report 44	Monthly Report 44

Expert,
Ph.D Helmut HABERSACK

Project leader,
Ph.D Eng. DEÁK György

In the report, the activity concerning cvasi 3D Modelling carried out by INCDPM and Deltares experts has been presented according to the technical specifications.