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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. 38: 1 – 30 June 2014*

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.38	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 38
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 38 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 July 2014)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 38: 1 – 30 June 2014

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

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR WATER AND SEDIMENT	<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 for the proper conditions of the sampling campaign
2.	SAMPLING CAMPAIGN FOR WATER AND SEDIMENT (26.06.2014) (28.06.2014)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, 02, 10 ▪ 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.	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
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the monthly Report 38 	

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 (chemist 2)

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 38 th campaign (12, 22, 29.06.2014)	For main critical points (01, 02 and 10) and secondary (03, 04, 07)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 35 (12, 22, 29.06.2014)	For main critical points (01, 02 and 10) and secondary (03, 04, 07)	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 38th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.38

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Velocities measurements in breeding areas	Have been performed velocities measurements in sturgeons' feeding habitats on Borcea branch km 62, Bala branch km 4 and km 7, Danube km 184, km 186, km 195 and km 198, Caleia branch km 9 and km 1, Cravia and Vâlcu branches.	Velocities centralizer
2.	Benthos sample collecting from feeding habitats	Benthos samples have been collected with Petersen dredge in order to determine the composition of benthic fauna in areas Danube km 184, km 186, km 195 and km 198, Caleia branch km 9 and km 1, Cravia branch and Vâlcu branch.	Sampling sheets
3.	Migration monitoring for sturgeon and barbell	Sturgeons and barbell migration monitoring with monitoring systems fixed on studied sector	Monitoring systems recordings
4.	Other activities	Maintenance for monitoring systems Contributions to the 38 th monthly report	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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6.3.5 Expert position: ICHTHYOLOGIST EXPERT 2 - Other fish species - Istvan Falka

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing	Data processing from scientific fishing for Alosa species in April - May	Determining the relative abundance of larvae and Alosa adult specimens captured with scientific fishing in critical points, gender distribution and age determination.
2.	Other activities	Preparing the equipments for scientific fishing in July	

Expert,
PhD. biol. FALKA Istvan

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in June 2014	Statistical processing of level, temperature and turbidity data recorded in June 2014 in automatic stations from CP01, CP02 and CP10	Statistical indicators, turbidity and temperature variation charts, hodographs of the relative and absolute water level, water surface gradients, correlations between the automatic monitoring stations
2.	Contribution to the Monthly Report no 38	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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6.3.7. Expert position: HYDRAULIC SEDIMENTOLOGY EXPERT - Gh. Viorel UNGUREANU

MONTHLY REPORT 1 - 30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (02-04.06; 10-13.06; 18-20.06; 23-26.06)	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 (02-04.06; 10-13.06; 18-20.06; 23-26.06)	Flow and velocity measurements in main critical points and on monitoring section.	Velocity and flow unprocessed data
3.	MONITORING CAMPAIGN (02-04.06; 10-13.06; 18-20.06; 23-26.06)	Weekley water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level in critical point 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 38	Hydromorphology chapter and Annex 6.5

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 June 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (12, 19, 22, 25, 26, 29.06.2014)	<ul style="list-style-type: none"> ○ field campaign in CP01, CP02, CP10 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropic 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 - images
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 38; ○ Program proposal drafting for the next period activities; 	Monthly Report no. 38

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 - 30 June 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Interim Report 9	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 monitoring parameters 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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6.3.17 EXPERT 3D MODELLING - PhD Professor HELMUT HABERSACK

MONTHLY REPORT 01-30 June 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Numerical simulations for improving the application of the Delft3D model, under the present conditions of the bottom sill zone.	The bottom sill effect on water level was calculated with different Delft3D models, aiming to improve their application, by local adjustments.	Results of simulations upstream and downstream the bottom sill.
2.	Water flow parameters simulation with the Delft3D model at the critical point 10, under discharge conditions from June.	Data from June were used for numerical simulation and there were analysed results regarding the discharges and velocity distribution.	Local distributions of calculated values for critical point 10.
3.	Completion of data for modelling.	Activities were continued for processing data measured on the Danube and for preparing data sets in usable form for modelling.	Preparation of data on the basis of measurements.
4.	Other activities	- Contribution to the monthly report no 38 - Contribution to the interim report no 8	Monthly report no 38

Expert,
PhD Helmut HABERSACK

Project Leader,
PhD eng. DEÁK György