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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. 26: 1 -30 June 2013

ANNEX 6.3. ACTIVITY REPORTS EXPERTS



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MONTHLY REPORT NO. 26: 1 -30 June 2013

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 26	<ul style="list-style-type: none"> ○ Covering breviary problem according to AFDJ Galati guidelines 	Monthly Report no. 26
2	Communication of the project's phase and results towards the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> ○ Addresses' elaboration towards 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 sturgeons' monitoring stations ○ Checking the sampling campaigns ○ Checking the building site activities 	
4	Coordination of the project's implementation team and permanent monitoring of the proposed activities for the reporting period	<ul style="list-style-type: none"> ○ Field visits to monitor the activities ○ Working meetings 	
5	Approval of experts' monthly reports		
6	Coordination of the 5th Interim Report		
7	Coordination of the workshop participation from 1-2 July 2013		
8	Checking the documents made in the 26 th month of project's activity		
9	Elaboration of the activities' program for the period of (1 - 31 July 2013)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

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

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN OF SOIL, WATER AND SEDIMENTS SAMPLES	<ul style="list-style-type: none"> ▪ Preparation of sampling recipients (differently, according to chemical indicators) for soil, 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 OF WATER AND SEDIMENTS SAMPLES (28/29.06.2013)	<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; ▪ Each water and sediment sample has a completed registration bulletin for the sampling activity; ▪ Field analysis (pH, temperature, dissolved oxygen, turbidity) regarding waters' quality; ▪ Water samples have been fixed according to actual standards to determine laboratory indicators 	<ul style="list-style-type: none"> ▪ 50 water samples ▪ 20 sediment samples
3.	SOIL SAMPLING CAMPAIGN (13/14.06.2013)	<ul style="list-style-type: none"> ▪ Soil samples from CP 03 (A and B), 04 (A and B) and 07; ▪ Checking the geographical coordinates for each sampling point ▪ The samples have been labelled ▪ Each soil sample has its recording bulletin completed for the sampling activity 	<ul style="list-style-type: none"> ▪ 38 soil samples
4	PHYSICAL-CHEMICAL LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Assurance of the specific standard procedures of the analytical data quality. 	<ul style="list-style-type: none"> ▪ Preliminary data on water and sediment quality
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the Monthly Report ▪ Participation at the Interim Report, no.5 ▪ Preparation of the 1-2.07.2013 Workshop 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist 2)

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 26 th campaign (12,18,21,26,28,29.06.2013)	For the main CP: 01, 02, 10 and the secondary ones: 03, 04, 07	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no. 23 (12,18,21,26,28,29.06.2013)	For the main CP: 01, 02, 10 and the secondary ones: 03, 04, 07	Preliminary values of the air quality's indicators
3.	Data processing	Processing activity of the data measured on the field	Analysis bulletins
4.	Other activities	<ul style="list-style-type: none"> ○ Participation at the meetings of the project's team in order to plan the future activities ○ Contribution to the accomplishment of the 26th monthly report (Air and Noise monitoring) ○ Contribution to the 5th Interim Report 	Monthly Report no. 26

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

6.3.4 Expert position: ICHTYOLOG 1 EXPERT- Sturgeons and barbell- Adrian IONAȘCU

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sturgeons and barbell migration monitoring	Sturgeons and barbell migration monitoring using VR2W submersible automatic stations, installed	Recordings
2.	Specific habitats monitoring for sturgeons and barbell 20- 24.06.2013	<ul style="list-style-type: none"> - Weekly velocity measurements in spawn's potential feeding areas - Accomplishment of bathymetric profiles in spawn's potential feeding areas 	Measurements results, areas' localization
20	Alte activități	<ul style="list-style-type: none"> - Contribution to the accomplishment of the 26th Monthly Report - Contribution to the 5th Interim Report - materials preparation for the Workshop 	

Expert,
PhD biol. Adrian Ionașcu

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

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

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Analysis of the obtained data	Bathymetric measurements on <i>Alosa immaculata</i> and <i>Alosa tanaica</i> , captured in the area	Measurements' results
2.	Other activities	<ul style="list-style-type: none"> - Working plan for future months (fishing at other fish species, excepting sturgeon, barbell and mackerel) - Contribution to the accomplishment of the 26th Monthly Report - Contribution to the 5th Interim Report 	

Expert,
Istvan FALKA

Project Leader,
PhD eng. György DEÁK



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MONTHLY REPORT NO. 26: 1 -30 June 2013

6.3.6. Expert position: HYDROLOGY EXPERT - Balint Gabor

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations, May 2013	Statistical processing of level, temperature and turbidity data recorded in May in the 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 26	Data processing and interpretation	Hydrology subchapter elaboration at the hydromorphological monitoring activity and Annex 6.5

Expert,
PhD eng. Balint Gabor

Project Leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

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

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03-05.06; 10-12.06; 17-21.06; 24-27.06.2013)	Single-beam bathymetric measurements in the critical points and the monitoring sections. Intensive single-beam bathymetric measurements on the profiles of intensive and controlling monitoring in Bala bed layer	Raw and processed bathymetric data, transversal bathymetric sections
		Water flows and water velocity measurements in the main critical points and the monitoring sections Intensive single-beam bathymetric measurements on the profiles of intensive and controlling monitoring in Bala bed layer	Velocity and raw flows data
		Weekly water velocity measurements on 5 transversal sections in the right of the automatic monitoring stations of turbidity and level, CP01	Raw velocity data
2.	OTHER ACTIVITIES	Processing of the flows and velocity measurements from the previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 26	Hydromorphology chapter and Annex 6.5
		Development of a program proposal for the period of 1 - 31 July 2013	Program

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 26: 1 -30 June 2013

6.3.10. Expert Position: TERRESTRIAL INVERTEBRATES - Cecilia Serban

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CAMPAIGN REGARDING LUMBRICIDES' PRESENCE/ABSENCE (13/14.06.2013)	- lumbricides' absence/presence monitoring for soil samples taken from the secondary critical points: CP01, CP02, CP10, CP03 (A and B), CP04 (A and B) and CP07;	Observations on lumbricides absence/presence
2.	OTHER ACTIVITIES	- evaluation of lumbricides' distribution in monitoring areas - Preparation of observation campaign	

Expert,
Cecilia Serban

Project Leader,
PhD. eng. DEÁK György



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

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (24-27.06.2013)	<ul style="list-style-type: none"> ○ field campaign to establish fix and mobile noise and emissions' sources, in CP01, CP02, CP10 ○ Checking the building site, including the materials used by constructor ○ Field campaign in order to establish the anthropic level in the area of the building site ○ Settlement's checking 	<ul style="list-style-type: none"> - data - images
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Participation at the working team meeting in order to establish the processing algorithm of data ; ○ Contribution to the Monthly Report no. 26 ○ Program proposal for the next activities 	Monthly Report No. 26

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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6.3.16. Expert position: EXPERT ASSESSOR OF THE MONITORING RESULTS - Csanyi Bela

MONTHLY REPORT 1 - 30 June 2013

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Preparing data for Interim Report no. 5	Primary data regarding aquatic and terrestrial ecosystems	Centralising tables
2	Aquatic and terrestrial ecosystems data processing	Primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	Intercorrelations between abiotic and biotic determinants	Correlation functions

Expert assessor,
PhD CSANYI Bela

Project Leader,
PhD eng. DEÁK György



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6.3.17 EXPERT 3D MODELLING - prof.dr. HELMUT HABERSACK

MONTHLY REPORT 1 - 30 June 2013

No	ACTIVITY	DESCRIPTION	RESULTS
1.	Placing of planned hydraulic works in RSim3D hydrodynamic model for CP01 and CP02; preliminary calculations for different flows on the Danube	Planned hydraulic constructions in CP01 and CP02 were represented within RSim3D model for Phase III and final configuration. Use of new measurements for results evaluation and model improvement is considered.	Predict and analyse impact of planned hydraulic works at CP01 and CP02.
2.	Placing of planned hydraulic works in Phase III in Delft3D model for CP01, CP02 and bottom sill in CP10; preliminary calculations for different flows on the Danube	Main elements of the planned hydraulic works with influence on hydraulic parameters were represented in the model. Estimates resulted will be improved after new sets of data will be obtained.	Preliminary results on effects of bottom sill on Bala after Phase III of construction, considering other works in CP01 and CP02. Preliminary results on hydraulic parameters in CP10.
3.	Habitats modelling	Analysis of effects of hydraulic parameters on fish migration	Habitats simulation
3.	Add up data for modelling	New data were obtained for modelling, from measurements under existing conditions	Datasets for modelling
4.	Other activities	Participation in the elaboration of Report 26 Contribution in Interim Report 5 Prepare materials for Workshop	Report no 26

Expert,
Dr. Helmut HABERSACK

Project coordinator,
Dr. ing. DEÁK György