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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. 27: 1 -31 July 2013

ANNEX 6.3. ACTIVITY REPORTS EXPERTS



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 July 2013

No	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 27	<ul style="list-style-type: none"> ○ Covering breviary problem according to AFDJ Galati guidelines 	Monthly Report no. 27
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 activity reports		
6	Coordination of 5th Interim Report		
7	Participation at 1-2 July 2013 Workshop		
8	Documents' checking carried out for the 27 th month of projects' implementation		
9	Elaboration of the activities' program for the period of (1 - 31 August 2013)		

Project leader,
PhD eng. Deák György



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

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN OF WATER AND SEDIMENTS SAMPLES	<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 OF WATER AND SEDIMENTS SAMPLES (14.07.2013, 29.07.2013)	<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"> ▪ 100 water samples ▪ 40 sediment samples
3.	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
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the Monthly Report ▪ Participation at the Interim Report, no.5 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

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

MONTHLY REPORT 1 - 31 July 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 27 th campaign (5,6,12,13,19,20.07.2013)	For the main CP: 01, 02, 10	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no. 24 (5,6,12,13,19,20.07.2013)	For the main CP: 01, 02, 10	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 27th monthly report (Air and Noise monitoring) ○ Contribution to the 5th Interim Report 	Monthly Report no. 25

Expert,
PhD chem. **Adriana Borș**

Project Leader,
PhD eng. **DEÁK György**



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MONTHLY REPORT NO. 27: 1 -31 July 2013

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

MONTHLY REPORT 1 - 31 July 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	Weekly velocity measurements in spawn's potential feeding areas	Measurements results, areas' localization
3.	Sturgeon spawn scientific fishing (19 - 21 July)	Accomplishment of bathymetric profiles at sturgeon spawn	Measurements results
4.	Other activities	-Contribution to the accomplishment of the 26 th Monthly Report -Contribution to the 5 th Interim Report -Workshop participation (1-2 July 2013)	

Expert,
PhD biol. Adrian Ionașcu

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Analysis of the previous obtained data	Bathymetric measurements on <i>Alosa immaculata</i> and <i>Alosa tanaica</i> , captured in the area	Measurements' results
2.	Scientific fishing (19 - 21 July 2013)	- Electric scientific fishing in the shore area, CP10, with fishing sessions during daytime and night time - Biometric measurements on the fish material sampled	Measurements' results
3.	Other activities	- Working plan for future months (fishing at other fish species, excepting sturgeon, barbell and mackerel) - Contribution to the accomplishment of the 27 th Monthly Report	

Expert,
Istvan FALKA

Project Leader,
PHD eng. György DEÁK



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.6. Expert position: HYDROLOGY EXPERT - Balint Gabor

MONTHLY REPORT 1 - 31 July 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 July 2013 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 27	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. 27: 1 -31 July 2013

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

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (01-05; 08-10; 15-17; 22-24; 29-31.07.2013)	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
		Flow 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 August 2013	Program

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT - Florica Marinescu

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION FOR THE SAMPLING CAMPAIGN OF PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> ▪ Preparation of recipients for phytoplankton samples ▪ Preparation of reagents to fix samples, in field conditions; ▪ Preparation of necessary documents to record the field samples 	Conditions' assurance to carry on the sampling campaign
2.	SAMPLING CAMPAIGN OF PHYTOPLANKTON AND MACROPHYTES (29.07.2013; 30 - 31.07.2013)	<ul style="list-style-type: none"> ▪ Phytoplankton and macrophytes samples from the CP 03A, CP 03B, CP 04A, CP 04B, CP 07 ▪ The samples have been fixed according to actual standards for the microscopic analysis, in laboratory ▪ Field determination of macrophytes species ▪ Macrophytes' sampling and conservation activities that had not been determined on the field ▪ Each phytoplankton and macrophytes sample has a completed registration bulletin for the sampling activity 	<ul style="list-style-type: none"> - 33 Phytoplankton samples - 40 macrophytes samples - sampling bulletins
3.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Elaboration of the monthly Report no.27- aquatic flora and fauna monitoring chapter (excepting ichtyofauna) 	Monthly Report no. 27- Chapter F

Expert,
Biologist Florica Marinescu

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.9 Expert position: ZOOPLANKTON EXPERT - Fetecău Maria

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF ZOOPLANKTON SAMPLING CAMPAIGN	<ul style="list-style-type: none"> ▪ Preparation of sampling recipients ▪ Preparation of reagents to fix samples, in field conditions; ▪ Preparation of necessary documents to record the field samples 	Assurance of the optimal conditions for sampling campaign
2.	ZOOPLANKTON SAMPLING CAMPAIGN (30 - 31.07.2013)	<ul style="list-style-type: none"> • specific activities of zooplankton samples from critical points 01, 02, 10, 03, 04, 07 • verifying the compliance of GPS coordinates for each sampling pointe • fixing, labeling samples • completion of sampling bulletins for zooplankton samples 	<ul style="list-style-type: none"> ▪ 60 units of samples ▪ sampling bulletins
3.	OTHER ACTIVITIES	Contributions to the Monthly Report no 27	Monthly Report no 27- Chapter F - zooplankton subchapter

Expert,
Fetecău Maria

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

MONTHLY REPORT 1 - 31 July 2013

NR. CRT.	ACTIVITĂȚI	DESCRIERE	REZULTATE
1.	PREPARING AQUATIC MACROINVERTEBRATES SAMPLING CAMPAIGN	<ul style="list-style-type: none"> preparing sampling containers preparing samples fixing reagents in field conditions preparing necessary documents for field samples' evidence 	Assurance of the optimal conditions for sampling campaign
2.	AQUATIC MACROINVERTEBRATES SAMPLING CAMPAIGN (30 - 31.07.2013)	<ul style="list-style-type: none"> specific activities of aquatic macroinvertebrates samples from critical points 01, 02, 10, 03, 04, 07 verifying the compliance of GPS coordinates for each sampling point fixing, labeling samples completion of sampling bulletins for aquatic macroinvertebrates samples 	<ul style="list-style-type: none"> 40 units of samples sampling bulletins

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

6.3.12.Expert position: TERRESTRIAL FLORA AND VEGETATION- Frink József Pál

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF TERRESTRIAL VEGETATION MONITORING CAMPAIGN	Time and logistic preparation of phytosociological elevations in the permanent sections, established in 2012 for the CP mentioned in the Specifications for this monitoring period	Assurance of the optimal conditions for sampling campaign
2.	TERRESTRIAL VEGETATION MONITORING CAMPAIGN (5-16.07.2013)	Monitoring activities in CP 01, 02, 10, 03A, 03B, 04A, 04B and 07. phytosociological elevations have been carried out according to Braun-Blanquet methodology, the required parameters being recorded in the Specifications, for vegetation's characterization	21 phytosociological elevations have been made in the permanent sections, established in 2012, unflooded or partially flooded
3.	DESK ACTIVITIES	Heteromorphic vegetal taxons' identification and checking, hard to be identified on field, the introduction of them and of the parameters recorded on field in a the database	10 taxons have been identified, unidentified on the field. 12 phytosociological exceltables have been made
4.	OTHER ACTIVITIES	Contributions to the Monthly Report no 27	Monthly Report no 27- Chapter G

Expert,
Frink József Pál

Project Leader,
PhD eng DEÁK György



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MONTHLY REPORT NO. 27: 1 -31 July 2013

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

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (5, 12, 19.07.2013)	<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. 25 ○ Program proposal for the next activities 	Monthly Report no 27

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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6.3.15. Expert position: EVALUATION/ MONITORING IMPACT ON BIODIVERSITY- Zaharia Tania (ecologist 2))

MONTHLY REPORT 1 - 31 July 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT MONITORING on BIODIVERSITY (9-12.07.2013)	<p>Observations on spring migration and avifauna nestle for Natura 2000 biodiversity study</p> <ul style="list-style-type: none"> ○ Field campaign in Natura 2000- „Canaralele Dunării” (ROSCI0022) from CP01, CP02, CP03, CP04, CP07 ○ Field campaign in Natura 2000- „Balta Mică a Brăilei” (ROSCI0006) from CP10 <p>Field observations in order to establish building sites' influence on avifauna.</p>	<ul style="list-style-type: none"> - data - images - list of species
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the accomplishment of the monthly report no. 27 ○ Contribution to the accomplishment of Interim Report 5 	Monthly report no 27

Expert,
PhD eng. Zaharia TANIA

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 - 31 July 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 - PhD Professor HELMUT HABERSACK

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NR. CRT	ACTIVITY	DESCRIPTION	RESULTS
1.	Calculations with Delft3D model, based on discretisation with high number of vertical layers	Calculations with a 20 layer grid; results were compared with the ones obtained using a 10 layer grid in CP10	Prepare Delft3D model for more detailed hydraulic parameters in CP10
2.	Analysis of results from calculations with alternative options of Delft3D model for characterisation of water bed rugosity	Results obtained with White - Colebrook formula were analysed using Delft3D model and direct specification option of Chezy coefficient, and compared to results based on Manning formula	Prepare Delft3D model for characterisation of the effect of water bed rugosity in CP10
3.	Fill in data for modelling	Results from measurements under existent conditions on the Danube provided new datasets for modelling	Prepare datasets for hydrodynamic modelling
4.	Other activities	Participation in the elaboration of Report 27 Contribution in Interim Report 5 Participation in the Workshop (1-2 July 2013)	Report 27

Expert,
Dr. Helmut HABERSACK

Project coordinator,
Dr. ing. DEÁK György