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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. 30: 1 – 31 October 2013*

## **ANNEX 6.3. ACTIVITY REPORTS EXPERTS**



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### 6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

## MONTHLY REPORT 1 - 31 October 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 30	<ul style="list-style-type: none"> <li>○ Covering brevairy problem according to AFDJ Galati guidelines</li> </ul>	Monthly Report no 30
2	Communication of the project's phase and results towards the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> <li>○ Addresses' elaboration towards AFDJ Galati</li> <li>○ Participation at the progress meeting</li> </ul>	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Checking the continuous monitoring stations, velocity measurements and bathymetry</li> <li>○ Checking sturgeons' monitoring stations</li> <li>○ Checking the sampling campaigns</li> <li>○ Checking the building site activities</li> </ul>	
4	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Coordination of field teams to accomplish the intensive measurements and to test the determiantions of sturgeons' swimming velocity</li> </ul>	
5	Coordination of project's implementing team and permanent monitoring of the activities proposed for the reporting period	<ul style="list-style-type: none"> <li>○ Field visits to monitor the activities</li> <li>○ Working meetings</li> </ul>	
6	Approval of experts' monthly activity reports		
7	Participation at the Workshop from 10.10.2013		
8	Coordination of 6th Interim Report		
8	Documents' checking carried out for the 28 <sup>th</sup> month of projects' implementation		
9	Elaboration of the activities' program for the period of 1 - 30 Nov. 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 October 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ORGANISING SAMPLING CAMPAIGN OF WATER AND SEDIMENTS SAMPLES</b>	<ul style="list-style-type: none"> <li>▪ Preparation of sampling recipients (differently, according to chemical indicators) for water and sediments;</li> <li>▪ Preparation of reagents to fix water samples in field conditions;</li> <li>▪ Laboratory and field AMCs calibration;</li> <li>▪ Preparation of reagents set for field and laboratory analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assurance of proper conditions for the sampling campaign</li> </ul>
2.	<b>SAMPLING CAMPAIGN OF WATER AND SEDIMENTS SAMPLES (28.10.2013)</b>	<ul style="list-style-type: none"> <li>▪ Water and sediments sampling from CP 01, 02, 10</li> <li>▪ The conformation to the geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples have been labeled;</li> <li>▪ Each water and sediment sample has a completed registration bulletin for the sampling activity;</li> <li>▪ Field analysis (pH, temperature, dissolved oxygen, turbidity) regarding waters' quality;</li> <li>▪ Water samples have been fixed according to actual standards to determine laboratory indicators</li> </ul>	<ul style="list-style-type: none"> <li>▪ 50 water samples</li> <li>▪ 20 sediment samples</li> </ul>
3.	<b>PHYSICAL-CHEMICAL LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Assurance of the specific standard procedures of the analytical data quality.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Preliminary data on water and sediment quality</li> </ul>
4.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Participation at the Monthly Report</li> <li>▪ Participation at the Interim Report, no.6</li> </ul>	

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 - 31 October 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 30st campaign (11, 14,15.10.2013)	For the CP: 01, 02, 10	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no.27 (11, 14,15.10.2013)	For the 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"> <li>○ Participation at the meetings of the project's team in order to plan the future activities</li> <li>○ Contribution to the accomplishment of the 30st monthly report (Air and Noise monitoring)</li> <li>○ Contribution to the 6<sup>th</sup> Interim Report</li> </ul>	Monthly Report no.30

Expert,  
PhD chem. Adriana Borș

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 October 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sturgeons and barbell migration monitoring	Sturgeons fishing, in the are of the critical points, with the fishermen INCDPm signed the services contracts	
2.	Sturgeons' capture and labelling	9 sturgeons have been caught and labelled	Capture, biological sampling files
3.	Sturgeons and barbell migration monitoring	Sturgeons and barbell migration monitoring using VR2W submersible automatic stations, installed	Recordings
4.	Other activities	Contribution to the accomplishment of the 30st Monthly Report Contribution to the 6 <sup>th</sup> Interim Report	Reports

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data analysis	Analysis of the biometric data, previously obtained	
2.	Other activities	Contribution to the accomplishment of the 29 <sup>th</sup> Monthly Report Contribution to the 6 <sup>th</sup> Interim Report	Reports

**Expert,  
Istvan FALKA**

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



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### 6.3.6. Expert position: HYDROLOGY EXPERT - Balint Gabor

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations in October 2013	Statistical processing of level, temperature and turbidity data recorded in October 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 30	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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### 6.3.7. Expert position: HYDRAULIC SEDIMENTOLOGY EXPERT - Gh Viorel UNGUREANU

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (01-03.10; 08-11.10; 14-16.10; 23-25.10.2013)	Single beam bathymetric measurements in the main critical points and on the monitoring sections Multi-beam bathymetric measurements in CP10 and 01	Raw and processed bathymetric data, transversal bathymetric sections
2.	MONITORING CAMPAIGN (01-03.10; 08-11.10; 14-16.10; 23-25.10.2013)	Flow and velocities measurements in the main critical points and in the monitoring sections	Velocity and flow raw data
3.	MONITORING CAMPAIGN (01-03.10; 08-11.10; 14-16.10; 23-25.10.2013)	Weekley water velocity measurements on 5 transversal sections in the right of the automatic monitoring stations of turbidity and level, CP01	Raw velocity data
4.	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 30	Hydromorphology chapter and Annex 6.5
		Contribution to the 6 <sup>th</sup> Interim Report	Hydromorphology chapter

Expert,  
PhD eng. Gh. Viorel UNGUREANU

Project Leader,  
PhD eng. DEÁK György





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### 6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT - Florica Marinescu

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF THE SAMPLING CAMPAIGN MACROPHYTES	<ul style="list-style-type: none"> <li>▪ Preparation of reagents to fix samples, in field conditions;</li> <li>▪ Preparation of necessary documents to record the field samples</li> </ul>	Conditions' assurance to carry on the sampling campaign
2.	SAMPLING CAMPAIGN OF MACROPHYTES (28.10.2013)	<ul style="list-style-type: none"> <li>▪ Macrophytes samples from the CP 03A, CP 03B, CP 04A, CP 04B, CP 07</li> <li>▪ Field determination of macrophytes species</li> <li>▪ Macrophytes sampling and conservation that had not been determined on the field</li> <li>▪ Each macrophyte sample has a completed registration bulletin for the sampling activity</li> </ul>	<ul style="list-style-type: none"> <li>- 20 macrophytes samples</li> <li>- sampling bulletins</li> </ul>
3.	DATA PROCESSING AND ANALYSE	<ul style="list-style-type: none"> <li>▪ Density's and biomass computation for aquatic macrophytes</li> </ul>	
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Elaboration of the monthly Report no.30 aquatic flora and fauna monitoring chapter (excepting ichthyofauna)</li> </ul>	Monthly Report no. 30- Chapter F

Expert,  
Biologist Florica Marinescu

Project Leader,  
PhD eng. DEÁK György



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### 6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING AQUATIC MACROINVERTEBRATES SAMPLING CAMPAIGN	<ul style="list-style-type: none"> <li>preparing sampling containers</li> <li>preparing samples fixing reagents in field conditions</li> <li>preparing necessary documents for field samples' evidence</li> </ul>	Assurance of the optimal conditions for sampling campaign
2.	AQUATIC MACROINVERTEBRATES SAMPLING CAMPAIGN  (28.10.2013)	<ul style="list-style-type: none"> <li>specific activities of aquatic macroinvertebrates samples from critical points CP 03A, CP 03B, CP 04A, CP 04B, CP 07</li> <li>verifying the compliance of GPS coordinates for each sampling point</li> <li>fixing, labeling samples</li> <li>completion of sampling bulletins for aquatic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>20 units of samples</li> <li>sampling bulletins</li> </ul>
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>additional sorting of macroinvertebrates samples in order to select benthic organisms and to realize further investigations</li> </ul>	<ul style="list-style-type: none"> <li>10 units of sorted samples</li> </ul>

Expert,  
Luiza FLOREA

Project Leader,  
PhD eng. DEÁK György



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### 6.3.13 Expert position: AVIFAUNA MONITORING EXPERT- JOZSEF SZABO

## MONTHLY REPORT 1 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	AVIFAUNA MONITORING CAMPAIGN, FALL SEASON  (19-31.10.2013)	<ul style="list-style-type: none"> <li>○ Field campaign in the area of CP 01 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> <li>○ Field campaign in the area of CP02 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> <li>○ Field campaign in the area of CP10 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> <li>○ Field campaign in the area of CP03 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> <li>○ Field campaign in the area of CP04 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> <li>○ Field campaign in the area of CP07 <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Aquatic and migrating avifauna observations made from shore</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Observation sheets</li> <li>- Data</li> <li>- Images</li> <li>- Species lists</li> </ul>
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Participation at the accomplishment of the Monthly Report no. 30 (chapters G and H)</li> <li>▪ Participation at the accomplishment of 6th Interim Report</li> <li>▪ Program proposal for the next activities</li> </ul>	Monthly Report no 30

Expert,  
JOZSEF SZABO

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 - 31 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (8, 16, 23.10.2013)	<ul style="list-style-type: none"> <li>○ field campaign to establish fix and mobile noise and emissions' sources, in CP01, CP02, CP10</li> <li>○ checking the building site, including the materials used by constructor</li> <li>○ field campaign in order to establish the anthropic level in the area of the building site</li> <li>○ settlement's checking</li> </ul>	<ul style="list-style-type: none"> <li>- data</li> <li>- images</li> </ul>
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>○ Participation at the working team meeting in order to establish the processing algorithm of data ;</li> <li>○ Contribution to the Monthly Report no. 30</li> <li>○ Program proposal for the next activities</li> </ul>	Monthly Report no 30

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 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ANTHROPIC IMPACT MONITORING on BiODIVERSITY</b> (21-23, 28-29.10.2013)	Observations on the anthropic impact on Natura 2000 sites avifauna  Field campaign in Iortmac, Vederoasa, Dunăreni, Oltina lakes area  Field observations in order to establish building sites' influence on avifauna.	- data - images - species lists
2.	<b>OTHER ACTIVITIES</b>	Contribution to the accomplishment of the monthly report no. 30  Participation at the accomplishment of 6th Interim Report	Monthly report no 30

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 October 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Preparing data for Interim Report no. 6	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
4	Data processing for the 7 <sup>th</sup> Interim Report	Available data processing on the abiotic indicators	Correlation functions

**Expert assessor,  
PhD CSANYI Bela**

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



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### 6.3.17 Expert position: 3D MODELING EXPERT- prof.PhD HELMUT HABERSACK

## MONTHLY REPORT 1 - 31 October 2013

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Simulation with RSim-3D for the area of the critical points 01 and 02	Simulations' results have been prepared for the situations before constructions' execution and within the constructions accomplishment, at total flows of 2000 m <sup>3</sup> /s, 4000 m <sup>3</sup> /s, 6000 m <sup>3</sup> /s, 8000 m <sup>3</sup> /s, 12000 m <sup>3</sup> /s.	Results sets of the hydrodynamic model- RSim- 3D
2.	Simulations with the Delft3D model for the area of CP 01 and 02	Simulations have been made to evaluate the influence of some dredging versions on the Old Danube, on flows' distribution in CP01, in 2 situations of the bottom sill	Results of Delft3D hydrodynamic model
3.	Simulations with the Delft3D model for CP10	Computations have been made, taking into consideration dredging versions on Danube, to estimate the effects of these works on the hydraulic parameters, along with the effects of the bottom sill	Results of Delft3D model on hydraulic parameters at CP10
4.	Data completion with measurements in the actual period	Measurements results within this period conditions contribute to the completion of data sets for modeling	Preparation of measured data sets
5.	Other activities	-Contribution to the Monthly Report no. 30 -Contribution at the Interim Report 6	Report 30

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