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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. 29: 1 – 30 September 2013

ANNEX 6.3. ACTIVITY REPORTS EXPERTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György**MONTHLY REPORT
1 - 30 September 2013**

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 29	<ul style="list-style-type: none"> ○ Covering breviary problem according to AFDJ Galati guidelines 	Monthly Report no 29
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 and checking of the field monitoring activity	<ul style="list-style-type: none"> ○ Coordination of field teams to accomplish the intensive measurements and to test the determinations of sturgeons' swimming velocity 	
5	Coordination of project's implementing team and permanent monitoring of the activities proposed for the reporting period	<ul style="list-style-type: none"> ○ Field visits to monitor the activities ○ Working meetings 	
6	Approval of experts' monthly activity reports		
7	Coordination of 6th Interim Report		
8	Documents' checking carried out for the 29 th month of projects' implementation		
9	Elaboration of the activities' program for the period of (1 - 31 Oct 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 - 30 September 2013

NR. CRT.	ACTIVITĂȚI	DESCRIERE	REZULTATE
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 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 (05.09.2013; 24.09.2013)	<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 (24.09.2013)	<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"> ▪ 20 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.6 	

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 September 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 29 th campaign (2,3,9,19,20.09.2013)	For the CP: 01, 02, 10, 03, 04, 07	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no.26 (2,3,9,19,20.09.2013)	For the CP: 01, 02, 10, 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	Participation at the meetings of the project's team in order to plan the future activities Contribution to the accomplishment of the 29 th monthly report (Air and Noise monitoring)	Monthly Report no. 29

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 - 30 September 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sturgeons and barbell migration monitoring	Sturgeons and barbell migration monitoring using VR2W submersible automatic stations, installed	Recordings
2.	Experimental tests to determine sturgeons' movement velocity on bottom sill on Bala branch	Experimental tests using DK-PRB-01U monitoring and controlling system to determine sturgeons' movement velocity in bottom sill on Bala branch	Report
3.	Obtaining sturgeons' scientific fishing authorizations	Preparation the proper documentation for sturgeons' scientific fishing authorizations	Documentation deposition
4.	Other activities	Contribution to the accomplishment of the 29 th Monthly Report	

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 - 30 September 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 th Monthly Report	Report

**Expert,
Istvan FALKA**

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



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MONTHLY REPORT NO. 29: 1 – 30 September 2013

6.3.6. Expert position: HYDROLOGY EXPERT - Balint Gabor

MONTHLY REPORT 1 - 30 September 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations, September 2013	Statistical processing of level, temperature and turbidity data recorded in September 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 29	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 - 30 September 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (04-05.09; 09-11.09; 17-19.09; 24-26.09.2013)	Single-beam bathymetric measurements in the critical points and the monitoring sections	Raw and processed bathymetric data, transversal bathymetric sections
2.	MONITORING CAMPAIGN (04-05.09; 09-11.09; 17-19.09; 24-26.09.2013)	Weekley water velocity measurements on 5 transversal sections in the right of the automatic monitoring stations of turbidity and level, CP01	Raw velocity data
3.	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 29	Hydromorphology chapter and Annex 6.5
		Development of a program proposal for the period of 1 - 31 October 2013	Program

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
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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF 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 (24.09.2013)	<ul style="list-style-type: none"> ▪ Phytoplankton 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 ▪ Each phytoplankton sample has a completed registration bulletin for the sampling activity 	<ul style="list-style-type: none"> - 15 phytoplankton samples - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Preparation of phytoplankton samples taken within 30-31 July 2013 for microscopic analysis ▪ Microscopic identification of the individuals within the phytoplankton for the samples taken from the main and secondary critical points ▪ Quantitative microscopic analysis of the algae unities within the phytoplankton 	Results on the quality data
4.	DATA PROCESSING AND ANALYSE	<ul style="list-style-type: none"> ▪ Accomplishment of phytoplankton and macrophytes species list identified in the samples ▪ Density's and biomass computation for phytoplankton samples ▪ Saprobe index computation and Simpson diversity index for phytoplankton samples 	Preliminary activities of the quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Elaboration of the monthly Report no.29-aquatic flora and fauna monitoring chapter (excepting ichtyofauna) 	Monthly Report no. 29 - Chapter F

Expert,
Biologist Florica MarinescuProject Leader,
PhD eng. DEÁK György



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6.3.9. Expert Position: TERRESTRIAL INVERTEBRATES - Cecilia Serban

MONTHLY REPORT 1 - 30 September 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CAMPAIGN REGARDING LUMBRICIDES' PRESENCE/ABSENCE	<ul style="list-style-type: none"> Preparation of materials for the observation campaign Preparation of necessary documents 	Assurance of campaign accomplishment
2.	CAMPAIGN REGARDING LUMBRICIDES' PRESENCE/ABSENCE (24.09.2013)	<ul style="list-style-type: none"> lumbricides' absence/presence monitoring for soil samples taken from the secondary critical points: 03 (A and B), 04 (A and B) and CP 07; 	Observations regarding lumbricides' absence/presence
3.	OTHER ACTIVITIES	<ul style="list-style-type: none"> evaluation of lumbricides' distribution in monitoring areas 	

**Expert,
Cecilia Serban**

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



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6.3.10 Expert position: AVIFAUNA MONITORING EXPERT- JOZSEF SZABO

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	AVIFAUNA MONITORING CAMPAIGN, FALL SEASON Evaluation expedition of the migrating fauna (03-15.09.2013)	<ul style="list-style-type: none"> ○ Field campaign in the area of the CP04 - Ostrovul Fermecat, participation in ringing camp (03-10 September): <ul style="list-style-type: none"> ▪ Aquatic avifauna observations made from boat ▪ Aquatic avifauna observations made from shore ▪ Migrating birds ringing ○ Field campaign in CP02 - CP04 (06 September): <ul style="list-style-type: none"> ▪ Aquatic avifauna observations made from boat ○ Field campaign in Iortmac area: <ul style="list-style-type: none"> ▪ Avifauna observations Natura 2000 site (12 September) ○ Field campaign in Vederoasa area: <ul style="list-style-type: none"> ▪ Avifauna observations Natura 2000 site (13 September) ○ Field campaign in Dunăreni: <ul style="list-style-type: none"> ▪ Avifauna observations Natura 2000 site (14 September) ○ Field campaign in Oltina: <ul style="list-style-type: none"> ▪ Avifauna observations Natura 2000 site (15 September) 	<ul style="list-style-type: none"> - Observation sheets - Data - Images - Species lists
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the working team meetings, in order to establish the algorithms of the data's processing ▪ Participation at the accomplishment of the Monthly Report no. 29 (chapters G and H) ▪ Participation at the accomplishment of 6th Interim Report ▪ Program proposal for the next activities 	Monthly Report no 29

Expert,
JOZSEF SZABOProject Leader,
PhD eng DEÁK György



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

**MONTHLY REPORT
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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (5, 12, 25.09.2013)	<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. 29 ○ Program proposal for the next activities 	Monthly Report no 29

**Expert,
AMBRUS Laszlo**

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



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

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT MONITORING on BIODIVERSITY (12-15.09.2013)	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.	OTHER ACTIVITIES	Contribution to the accomplishment of the monthly report no. 29 Contribution to the accomplishment of 6th Interim Report	Monthly report no 29

Expert,
PhD eng. Zaharia TANIA

Project Leader,
PhD eng. DEÁK György



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

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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

Expert assessor,
PhD CSANYI Bela

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 September 2013

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preparation of modeling results at the CP 01, 02, 10 for the Synthesis Report	Modeling results, obtained by Boku and INCDPM + Deltares specialists, prepared for the Synthetis Report present evaluations of water flow parameters at CP 01, 02, 10 in construction situations, towards the initial conditions	Contributions to results of Rsim3D and Delft3D models, for the Synthetis Report
2.	Data completion within works' accomplishment	The results of the measurements made within works accomplishment on Danube have offered new data sets for modeling	Data sets' preparation for the hydrodynamic modeling
3.	Integration in a Delft3D model of the bathymetric data measured at the CP10 in 2013	Bed's description on the grid, built through successive steps of integration of measured data	Preparation of entrance data for Delft3D model, upgraded at CP10
4.	Computations and analysis of the results obtained with actual data for CP10	Using Delft3D model with bathymetric data upgraded at CP10, the results for the reference results with total flows on Danube of 2000 m ³ /s, 4000 m ³ /s, 6000 m ³ /s, 8000 m ³ /s. have been analysed	Evaluations of constructions influence at CP10, using Delft3D model
5.	Other activities	-Contribution to the Monthly Report no. 29 -Contribution at the Interim Report 6	Report 29

Expert,
phD Helmut HABERSACK

Project Leader,
PhD eng. DEÁK György