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PROGRAMUL OPERATIONAL SECTORIAL 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. 33:: 1- 31 January 2014

ANNEX 6.3.

ACTIVITY REPORTS EXPERTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 January 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 33	<ul style="list-style-type: none"> ○ Covering breviary problem according to AFDJ Galati guidelines 	Monthly Report 33
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	Documents' checking carried out for the 28 th month of projects' implementation		
8	Elaboration of the activities' program for the period of 1 - 28 February 2014)		

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 January 2014

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 AMC's 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 (11.01.2014) (23.01.2014)	<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; ▪ 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.	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 33 	

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 January 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 33 rd campaign (8,16.01.2014)	For the main critical points (01, 02 și 10)	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no 30 (8,16.01.2014)	For the main critical points (01, 02 și 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 33rd monthly report (Air and Noise monitoring) 	Monthly Report no.33

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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6.3.4 Expert position: ICHTYOLOGIST 1 EXPERT - Sturgeons and barbell- Adrian Ionașcu

MONTHLY REPORT 1 - 31 January 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data download from the VR2W reception stations	The data from the reception stations have been downloaded, fixed on the entire monitored sector	Migration maps
2.	Bathymetric measurements	Measurements have been made to establish the flows and the velocities from the 2 possible wintering habitats from Borcea branch, km 50,9 and Old Danube, km 186	Accomplishment of a centralising table comprising the water velocities at water surface and bottom
3.	Bentos sampling	Bentos samples from Borcea branch, km 50,9 and Old Danube, km 186	Sampling sheets used for laboratory analysis
4.	Data processing regarding sturgeons migration from August-December 2013	Accomplishment of migration routes and data interpretation regarding sturgeons behaviour from dams' area	Conclusions concerning sturgeons' migration within the analysed period

Expert,
PhD biol. Adrian Ionașcu

Project Leader,
PhD eng. DEÁK György



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6.3.6. Expert position: HYDROLOGY EXPERT- Balint Gabor

MONTHLY REPORT 1 - 31 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations in January 2014	Statistical processing of level, temperature and turbidity data 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 33	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 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (06, 15, 23, 28.01.2014)	Single beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric sections
2.	MONITORING CAMPAIGN (06, 15, 23, 28.01.2014)	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 33	Hydromorphology chapter and Annex 6.5
		Program proposal for the period of 1 - 28 February 2014	Program

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

MONTHLY REPORT 1 - 31 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> Benthic macroinvertebrates sorting in December 2013 campaign to select the benthic organisms and to accomplish the future investigations Qualitative and quantitative analysis of the benthic macroinvertebrates samples 	<ul style="list-style-type: none"> 10 unities of analysed samples Results on quality data
2.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> abundance computation and numerical density on taxonomic groups of benthic macroinvertebrates computation of Shannon-Wiener diversity index for macroinvertebrates samples accomplishment of saprobiological indicators list that show water's quality Graphic representation of quality data resulted from the analysis of macroinvertebrates samples 	<ul style="list-style-type: none"> Preliminary values of the quality indicators

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 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	AVIFAUNA MONITORING CAMPAIGN, WINTER SEASON (8-22.01.2014)	<ul style="list-style-type: none"> ○ Field campaign in the area of CP01 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore ○ Field campaign in the area of CP02 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore ○ Field campaign in the area of CP10 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore ○ Field campaign in the area of CP03 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore ○ Field campaign in the area of CP04 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore ○ Field campaign in the area of CP07 <ul style="list-style-type: none"> ▪ Aquatic avifauna observations from boat ▪ Aquatic avifauna observations from shore 	<ul style="list-style-type: none"> - observation sheets; - data; - images; - list of species
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the monthly Report no. 33 (chapters G and H) ▪ Participation at the Interim Report no 7 ▪ Program proposal for the next activities 	Monthly Report no 33

Expert,
JOZSEF SZABO

Conducător Proiect,
Dr. DEÁK György



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

MONTHLY REPORT 1 - 31 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (16.01.2014)	<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. 33 ○ Program proposal for the next activities 	Monthly Report no 33

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 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT MONITORING ON BIODIVERSITY (10, 12, 13, 14, 16.01.2014)	Observations on the anthropic impact on Natura 2000 sites avifauna <ul style="list-style-type: none"> Field campaign in Iortmac, Vederoasa, Dunăreni, Oltina lakes area Field observations in order to establish building sites' influence on avifauna.	<ul style="list-style-type: none"> - data - images - species lists
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> Contribution to the accomplishment of the monthly report no. 33 Participation at the accomplishment of 7th Interim Report 	Monthly report no 33

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 January 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the 7 th Interim Report	Data regarding aquatic and terrestrial ecosystems	Centralising tables
2	Data processing regarding aquatic and terrestrial ecosystems	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 position: 3D MODELING EXPERT- prof.PhD HELMUT HABERSACK

MONTHLY REPORT 1 - 31 January 2014

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Hydrodynamic modelling at the main critical point 01 regarding complementary possible measures in order to improve the depth conditions	The modelling activities have continued with the study of some improvement possibilities of depths for navigation and the change of flows distribution on branches on the area of Bala ramification, through completion versions of bottom sill effects	Simulations' results
2.	Hydrodynamic modelling in the critical point 10 regarding the period of October- December 2013	Computations have been made regarding flows distribution on branches at CP10, for situations from October, November, December 2013	Results of Delft3D model regarding the hydraulic parameters at CP10
3.	Data completion based on measurements	The processings of data measured on Danube and their analysis to be used within modelling have continued	Preparation of data sets based on measurements
4.	Other activities	-Contribution to the Monthly Report no. 30 -Contribution at the Interim Report 6	Report 33

Expert,
phD Helmut HABERSACK

Project Leader,
PhD eng. DEÁK György