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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.42: 1–31 October 2014*

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO.42: 1-31 October 2014

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 42	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 42
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> ○ Elaboration of the addresses sent to 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 the monitoring stations for sturgeons ○ Checking the sampling campaigns ○ Checking the building site activities 	
4	Coordination of the project implementation team and permanent monitoring of the progress of proposed activities for the reporting period	<ul style="list-style-type: none"> ○ Field visits for activities monitoring ○ Working meetings 	
5	Approval of monthly activity reports of the experts		
6	Checking and approving the documents elaborated in 42 nd month of project activity		
7	Coordinate the completion of Interim Report 9		
8	Elaboration of the project activities program for the next period (1 - 30 November 2014)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO.42: 1–31 October 2014

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

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR SOIL, WATER AND SEDIMENTS	<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 FOR WATER AND SEDIMENTS (18.10.2014; 30.10.2014)	<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; ▪ For each water and sediment sample has completed a registration bulletin for the sampling activity; ▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality; ▪ Water samples have been fixed according to actual standards for laboratory indicators determination 	<ul style="list-style-type: none"> ▪ 50 water samples ▪ 20 sediment samples
3.	SAMPLING CAMPAIGN FOR SOIL (30.10.2014)	<ul style="list-style-type: none"> ▪ Soil samples from CP03 (A and B), CP04 (A and B) and CP07 ▪ The conformation to the geographical coordinates for each sampling point has been checked; ▪ The samples have been labeled; ▪ For each water and sediment sample has completed a registration bulletin for the sampling activity; 	<ul style="list-style-type: none"> ▪ 20 soil samples
4.	PHYSICAL- CHEMICAL LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Conducting the specific standard procedures for analytical data quality assurance. 	<ul style="list-style-type: none"> ▪ Preliminary data regarding water and sediment quality
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Contribution to Monthly Report 42 ▪ Contribution to the development of Interim Report 9 	

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 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 42 th campaign (2, 22, 31.10.2014)	For main critical points CP 01 and CP 02	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 39 (2, 22, 31.10.2014)	For main critical points CP 01 and CP 02	Preliminary values of the air quality indicators
3.	Data processing	Processing of the data measured in the field	Analysis bulletins
4.	Other activities	<ul style="list-style-type: none"> ○ Participation at the meetings of the project team, in order to plan the future activities ○ Contribution to the 42nd monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.42

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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6.3.4 Expert position: ICHTYOLOGIST EXPERT 1 - Sturgeons and barbell - CRISTEA VICTOR

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Maintenance and data downloading: 22.10 (CP 01 and CP 02), 23.10 (CP 10)	Have been downloaded the data from monitoring systems on Borcea, Bala, Caleia, Cravia and Old Danube branches. Maintenance activities for the monitoring systems.	Obtaining the data from the monitoring systems
2.	Data processing for sturgeons' migration period	Have been processed the data obtained during May-August campaign	Maps, charts, tables
3.	Diligence in order to obtain the permits for scientific fishing for sturgeons	Have continued efforts started in July to issue special scientific fishing permits for sturgeons species.	Faxes to ANPA
4.	Other activities	Contribution to Monthly Report no.42 and Interim Report 9 Preparing the equipments and materials necessary for fishing and tagging campaign.	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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6.3.6. Expert position: HYDROLOGY EXPERT - PhD eng. George POTERAȘ

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in October 2014	Statistical processing of level, temperature and turbidity data recorded in October 2014 in 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 42	Data processing and interpretation	Hydrology subchapter elaboration for the hydromorphological monitoring activity and Annex 6.5

Expert,
PhD eng. George POTERAȘ

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 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (01, 02, 03, 06, 07, 08, 09, 15, 16, 17, 22, 23, 29, 30, 31. 10.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (01, 02, 03, 06, 07, 08, 09, 15, 16, 17, 22, 23, 29, 30, 31. 10.2014)	Flow and velocity measurements in main critical points and on monitoring sections	Unprocessed velocity and flow data
3.	MONITORING CAMPAIGN (01, 02, 03, 06, 07, 08, 09, 15, 16, 17, 22, 23, 29, 30, 31. 10.2014)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01 and 02	Unprocessed velocity data
4.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
		Contributions to Monthly Report 42	Chapter Hydromorphology and Annex 6.5

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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR MACROPHYTES	<ul style="list-style-type: none"> ▪Preparation of reagents for samples fixation in field conditions; ▪Preparing the necessary documents for „in field” samples registration 	Ensure the optimal conditions for conducting the sampling campaign
2.	SAMPLING CAMPAIGN FOR MACROPHYTES (19.10.2014)	<ul style="list-style-type: none"> ▪Specific sampling activities for macrophytes in CP 01, 02, 10, 03A, 03B, 04A, 04B, 07 ▪In field determination of macrophytes species ▪Collection and preservation for macrophytes that was not determined on site ▪Sampling bulletins completion for macrophytes 	<ul style="list-style-type: none"> - 40 samples units - sampling bulletins for macrophytes
3.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪Calculation of density and biomass for aquatic macrophytes 	
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪Participation to Monthly Report no. 42 drafting - chapter „Aquatic flora and fauna monitoring” (except for ichtyofauna) 	Monthly Report no. 42 - Chapter F

Expert,
Dr.biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.42: 1–31 October 2014

6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OBSERVATION CAMPAIGN REGARDING THE PRESENCE/ABSENCE OF LUMBRICIDES (30.10.2014)	- have been monitored the presence/absence of lumbricides in the soil samples collected from critical points: CP 03 (A and B), CP 04 (A and B) and CP 07;	Observations regarding the presence/absence of lumbricides
2.	OTHER ACTIVITIES	- preparing the observation campaign - lumbricides distribution assessment in monitoring areas	

Expert,
Șerban Cecilia

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.42: 1–31 October 2014

6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

MONTHLY REPORT 1 - 31 October 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> Preparing the sampling recipients Preparing fixation reagents for samples „in field” conditions Preparing the necessary documents for „in field” samples registration 	Ensure the optimal conditions for conducting the sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (19.10.2014)	<ul style="list-style-type: none"> specific sampling activities for aquatic macroinvertebrates in critical points 01, 02, 10, 03A, 03B, 04A, 04B, 07 verification of GPS coordinates compliance for each sampling point samples fixing and labeling completing the sampling bulletins for aquatic macroinvertebrates samples 	<ul style="list-style-type: none"> 40 sample units sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> additional sorting for benthic macroinvertebrates samples collected for organisms selection and perform further investigations qualitative and quantitative analysis for collected samples of benthic macroinvertebrates 	<ul style="list-style-type: none"> 40 sorted and analyzed sample units
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> calculation of abundance and numerical density for taxonomic groups of benthic macroinvertebrates calculation of Shannon-Wiener diversity index for macroinvertebrates samples drafting the list of saprobiological indicators for water quality graphic representation for quality data from macroinvertebrates samples analysis 	<ul style="list-style-type: none"> preliminary values for 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

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p>AVIFAUNA MONITORING CAMPAIGN AUTUMN SEASON</p> <p>(02, 03, 06 - 10, 13, 14.10.2014)</p>	<p>Field trip in CP01</p> <ul style="list-style-type: none"> ▪ aquatic avifauna observations from the boat ▪ aquatic and migratory avifauna observations from the shore <p>Field trip in CP02</p> <ul style="list-style-type: none"> ○ aquatic avifauna observations from the boat ○ aquatic and migratory avifauna observations from the shore <p>Field trip in CP10</p> <ul style="list-style-type: none"> ○ aquatic avifauna observations from the boat ○ aquatic and migratory avifauna observations from the shore <p>Field trip in CP03</p> <ul style="list-style-type: none"> ○ aquatic avifauna observations from the boat ○ aquatic and migratory avifauna observations from the shore <p>Field trip in CP04</p> <ul style="list-style-type: none"> ○ aquatic avifauna observations from the boat ○ aquatic and migratory avifauna observations from the shore <p>Field trip in CP07</p> <ul style="list-style-type: none"> ○ aquatic avifauna observations from the boat ○ aquatic and migratory avifauna observations from the shore 	<ul style="list-style-type: none"> ○ observation sheets; ○ data; ○ photos; ○ species lists
2.	<p>OTHER ACTIVITIES</p>	<ul style="list-style-type: none"> ▪ Participation in elaboration of the Monthly Report no. 42 (Chapters G and H) ▪ Participation in elaboration of the Interim report 9 ▪ Elaboration of the program proposal for next activities. 	<p>Monthly Report no.42</p>

Expert,
JOZSEF SZABO

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 October 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (02, 22, 31.10.2014)	<ul style="list-style-type: none"> ○ field campaign in CP01, CP02 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropization level in the area of the construction site; ○ checking the construction site, including the materials used by constructor; ○ sites verification; 	<ul style="list-style-type: none"> - data - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 42; ○ Participation in elaboration of the Interim report 9 ○ Program proposal for next period activities; 	Monthly Report no. 42

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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6.3.15. Expert position: Impact on biodiversity assessment/monitoring - ZAHARIA Tania (ecologist 2)

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT ON BIODIVERSITY MONITORING (06-10, 13, 14.10.2014)	Observations regarding anthropic impact on avifauna from Natura 2000 sites: <ul style="list-style-type: none"> ○ field trip in critical points and dobrogian lakes areas In field observations in order to establish construction sites influence on avifauna.	<ul style="list-style-type: none"> - data - photos - lists of species
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> - Participation in elaboration of the Monthly Report no. 42 - Participation in elaboration of the Interim report 9 	Monthly Report 42 Interim Report 9

Expert,
PhD Tania ZAHARIA

Project Leader,
PhD eng. DEÁK György



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6.3.16. Expert position: EXPERT ASSESSOR OF THE MONITORING RESULTS - Marian TUDOR

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Interim Report 9	Data regarding aquatic and terrestrial ecosystems	Centralization tables
2	Data processing regarding aquatic and terrestrial ecosystems	Establishing the primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variation

Expert assessor,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György



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6.3.17 Expert position: 3D MODELLING EXPERT - Prof.PhD. HELMUT HABERSACK

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preparing the updated model on the Old Danube and Epurașu arm in the area of critical point 02 .	Bathymetric data sets obtained from measurements made by the INCDPM team were used to project on the model grid a representation for the Old Danube riverbed and Epurașu arm in the critical point 02, based on the conditions of the current period, observed in September 2014. Preliminary estimates obtained using Delft3D model, in terms of discharges calculated on the Old Danube and Epurașu arm, will be used together with the results of other numerical simulations for calibration of updated model, in this area.	Data files.
2.	Numerical simulations in the area of critical point 02 to analyse the influence of works in current conditions.	Numerical simulations with the Delft3D model were performed using bathymetric data from the July in critical point 10 and discharges from October. Results of the model contribute to analyse the effects of works in various situations that occur on the Danube, in the range of discharges considered for the monitoring project.	Results of the numerical simulations.
3.	Inserting data for modelling, on the basis of the measurements.	The processing activities of measured data on the Danube and preparing of data sets in usable form for modelling continued.	Preparing data, on the basis of the measurements.
4.	Other activities	- Participation in development of monthly Report 42 - Participation in development of Interim Report 9	Monthly Report 42

Expert,
Ph.D Helmut HABERSACKProject leader,
Ph.D Eng. DEÁK György

In the present report, the activity concerning cvasi 3D Modelling carried out by INCDPM and Deltares experts has been presented, according to the technical specifications.