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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. 39: 1 – 31 July 2014*

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 39	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 39
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 38 th month of project activity		
7	Coordinate the completion of Interim Report 9		
8	Elaboration of the project activities program for the next period (1 - 31 August 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 July 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 (05.07.2014) (24.07.2014)	<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 to determine indicators in the laboratory 	<ul style="list-style-type: none"> ▪ 50 water samples ▪ 20 sediment samples
3.	SAMPLING CAMPAIGN FOR SOIL (24.07.2014)	<ul style="list-style-type: none"> ▪ Have been collected soil samples in CP 01, CP 02, CP 10, CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ Have been verified the conformation of the geographical coordinates for each sampling point; ▪ The samples have been labeled; ▪ For each soil sample a registration bulletin has been completed; 	<ul style="list-style-type: none"> ▪ 38 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"> ▪ Participation at the monthly Report 39 	

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 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 39 th campaign (3, 17, 25.07.2014)	For main critical points (01, 02 and 10)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 36 (3, 17, 25.07.2014)	For main critical points (01, 02 and 10)	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 39th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.39

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 - CRISTEA VICTOR

MONTHLY REPORT 1 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Velocities measurements in breeding areas (03, 10, 17, 18, 24.07.2014)	Have been performed velocities measurements in sturgeons' feeding habitats on Borcea branch km 62, Bala branch km 4 and km 7, Danube km 184, km 186, km 195 and km 198, Caleia branch km 9 and km 1, Cravia and Vâlcu branches.	Velocities centralizer
2.	Benthos sample collecting from feeding habitats (03.07.2014)	Benthos samples have been collected with Petersen dredge in order to determine the composition of benthic fauna in: Borcea branch km 62 and Bala branch km 4 and km 7.	Sampling sheets
3.	Scientific fishing for juvenile sturgeon specimens (03, 18.07.2014)	Have been performed scientific fishing with nets for sturgeon juvenile specimens in potential feeding areas	Beluga juvenile specimen capturing on Danube at km 198
4.	Data downloading from monitoring systems (10, 18.07.2014)	Sturgeon and barbell monitoring with monitoring systems fixed on the investigated sector	Recordings of the monitoring systems
5.	Other activities	Maintenance for monitoring systems Contributions to the 39 th monthly report Contributions to the Interim Report 9	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Electrical fishing in CP 10 area (18.07.2014)	Fishing strips were made on both sides on Caleia branch, Danube and Vâlcium	Identification for fish species in this areas and their relative abundance determination
2.	Data processing	Data processing from scientific fishing in CP 10	Maps with fishing areas Charts and interpretation on identified species number and their abundance
3.	Other activities	Preparing the equipments for scientific fishing	

Expert,
PhD. biol. FALKA Istvan

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 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in July 2014	Statistical processing of level, temperature and turbidity data recorded in July 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 39	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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03, 04, 08, 09, 10, 11, 17, 18, 22, 23, 24, 25, 29, 30.07.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
		Multi-beam bathymetric measurements in critical points CP10	Raw and processed bathymetric data
		Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01- CP02	Unprocessed velocity data
2.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 39	Hydromorphology chapter and Annex 6.5
		Programme proposition drafting for the period 1 - 31 August 2014	Programme

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 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> ▪Preparing the recipients for phytoplankton samples ▪Preparation of reagents to fix 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 PHYTOPLANKTON AND MACROPHYTES (24.07.2014; 26.07.2014)	<ul style="list-style-type: none"> ▪Specific sampling activities for phytoplankton and macrophytes in CP 01, 02, 10, 03A, CP 03B, CP 04A, CP 04B, CP 07 ▪Sample fixation according to relevant standards for laboratory microscopic analysis ▪„In field” determination for macrophytes species ▪Collecting and preserving for macrophytes which were not determined in the field ▪Sampling bulletins completion for phytoplankton and macrophytes samples 	-33 phytoplankton samples (11 average samples) - 40 macrophytes samples - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪Phytoplankton samples preparation for microscopic analysis 	
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪Establishing a list of macrophytes species identified in each critical point ▪Calculation of density and biomass for aquatic macrophytes 	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪Participation in elaboration of the Monthly Report no. 39 - Chapter: Monitoring of aquatic flora and fauna (except for ichthyofauna) 	Monthly Report no.39 - Chapter F

Expert,
Dr.biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 1 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES (24.07.2014)	- have been monitored the presence/absence of lumbricides in the soil samples collected from critical points: CP 01, CP 02, CP 10, CP 03 (A and B), CP 04 (A and B) and CP 07;	Observations regarding 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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6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

MONTHLY REPORT 1 - 31 July 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 (26.07.2014)	<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 fixing, samples 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 sample units 10 samples qualitative analyzed

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION	Logistic preparing and time planning for phytosociological survey in permanent plots designated in 2012, for critical points mentioned in Specifications for this monitoring period.	Ensuring the optimal conditions for monitoring campaign.
2.	MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION (07-12.07.2014)	Conducting the monitoring activities in critical points 01, 02, 10, 03A, 03B, 04A, 04B and 07. In this locations have been performed phytosociological survey according to Braun-Blanquet methodology, recording the parameters from Specifications for vegetation characterization.	Have been performed 12 phytosociological survey in permanent designated in 2012, unflooded or partial flooded.
3.	OFFICE ACTIVITIES	Identification and verification for polymorphic vegetal taxa, hard identifiable in field, their input as well as „in field” registered parameters into computerized database.	Have been exactly identified and verified 10 unidentified taxa in the field, were made 12 phytosociological tables.
4.	OTHER ACTIVITIES	Participation in elaboration of the Monthly Report no. 39 - subchapter terrestrial flora	Monthly Report no. 39 - Chapter G

Expert,
Frink József Pál

Project Leader,
PhD eng. DEÁK György



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

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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (03, 04, 17, 18, 25, 28.07.2014)	<ul style="list-style-type: none"> ○ field campaign in CP01, CP02, CP10 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropic level in the area of the building site; ○ checking the building site, including the materials used by constructor; ○ sites verification; 	<ul style="list-style-type: none"> - data - images
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 39; ○ Program proposal for the next period activities; 	Monthly Report no. 39

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 (07-12.07.2014)	Observations of the anthropic impact on terrestrial flora from Natura 2000 sites: <ul style="list-style-type: none"> ○ Field trip in critical points areas Field observations in order to establish the influence of the construction sites on terrestrial flora.	<ul style="list-style-type: none"> - data - images - lists of species
2.	OTHER ACTIVITIES	- Participation in elaboration of the Monthly Report no. 39	Monthly Report no. 39

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

Expert assessor,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György



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6.3.17 EXPERT 3D MODELLING - Ph.D Professor HELMUT HABERSACK

MONTHLY REPORT 01 - 31 July 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Numerical simulations to improve the application of the Delft3D model, under the present conditions from critical points 01 and 02.	In order to improve the application of the Delft3D model on the critical points 01 and 02 domain, numerical simulations have been carried out to assess the effects of certain components and parameters with action located throughout the entire domain (digitization with layers, vertical adjustment of turbulent viscosity values). Z and sigma models have been used for a bigger section or a bigger area from critical points 01 and 02.	Results of numerical simulations.
2.	Modelling for critical point 10 with data from July 2014.	The inputs in Delft3D model for the area have been updated, area which includes Danube sections and Caleia branch. Numerical simulations have been carried out for discharge situations on Danube from June and July 2014. The results regarding discharge percentages on Danube and Caleia branch have been compared to the ones obtained using bathymetric data from the fall of 2013.	Discharges and local value distributions calculated at critical point 10.
3.	Data completion for modelling, based on the measurements carried out in July 2014.	Data processing activities (data measured on Danube) and the preparation of data sets in usable form for modelling have continued.	Data preparation based on the measurements carried out.
4.	Other activities.	- Contribution to the monthly report no 39 - Contribution to the intermediate report no 9	Monthly report no 39

**Expert,
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In the report, the activity concerning quasi 3D modelling carried out by INCDPM and Deltares experts has been presented according to the technical specifications.