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Națională Agency de Protecție Mediului
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Ministerul de Educație și Cercetare
2007-2013



TRANS
MĂRIȘTELE DE ACȚIUNI, CONȘTIINȚĂ ȘI CALITATE

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

MONTHLY REPORT NO.75: 1 – 31 July 2017

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.75	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ RA Galati guidelines 	Monthly Report 75
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 	
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 	
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"> ○ Working meetings 	
5	Approval of experts' monthly activity reports		
6	Checking and approving the documents elaborated in month 75 of the project activity		
7	Coordinate the completion of Interim Report 16		
8	Coordinate the drafting of Interim Report 17		
9	Elaborate the project activities program for the next period (1 - 31 August 2017)		

Project leader,
PhD eng. Deák György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PHYSICAL- CHEMICAL LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Conducting the specific standard procedures for analytical data quality assurance. ▪ Performing physical-chemical laboratory analysis for soil, water and sediment on samples collected in June 2016 	<ul style="list-style-type: none"> ▪ Data regarding soil, water and sediment quality
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Contribution to Monthly Report 75 drafting ▪ Contribution to Interim Report 16 drafting 	

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

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Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Other activities	<ul style="list-style-type: none"> ○ Participation to the meetings of the project implementation team, in order to plan and conduct future activities ○ Contribution to Monthly Report 75 (Air and noise monitoring chapters) ○ Data processing for Interim Report 17 drafting 	Reports

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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Monitoring of sturgeons' migration CP01 and CP02 (27, 28.07.2017)	- data downloading from the monitoring systems; - installing 5 monitoring systems on Borcea-Bala sector	Report
2.	Other activities	- Contribution to Monthly Report 75. - Drafting the Interim Report 17	Report

Ichthyologist Expert,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 July 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Scientific fishing for other species CP 01, CP02, CP03, CP04, CP07 and CP 10 (18, 19, 20.07.2017)	Has been performed scientific fishing in the bank area with electronarcosis in all critical points. For all specimens, biometrical measurements have been made.	- Distribuția, abundența și biomasa speciilor pe puncte.
2.	Other activities	Contribution to Monthly Report 75 Initial processing for the field data.	Reports

Ichthyologist Expert, other fish species
PhD biologist Istvan FALKA

Project Leader,
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing for turbidity, temperature and relative level, recorded in automatic stations in July 2017	Statistical processing of level, temperature and turbidity data recorded in July 2017, in automatic stations from the monitoring sector.	Statistical indicators, turbidity and temperature variation graphs, hodographs of the relative and absolute water level, water gradients, correlations between the automatic monitoring stations.
2.	Contribution to Monthly Report 75	Processing and interpretation of specific data.	Drafting the hydrology subchapter, for hydromorphological monitoring activity and for Annex 6.5.

Expert,
PhD eng. George POTERAŞ

Project Leader,
PhD eng. Deák György



6.3.7. Expert position: HYDRAULIC SEDIMENTOLOGY EXPERT - Gh. Viorel UNGUREANU

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03, 11, 12, 17, 18, 19, 20, 24, 27, 28.07.2017)	Single-beam bathymetric measurements in main critical points for sections profiling	Bathymetric data, primary and pre-processed
2	MONITORING CAMPAIGN (03, 11, 12, 17, 18, 19, 20, 24, 27, 28.07.2017)	ADCP measurements for velocities and flow rates on the monitoring sector	Unprocessed velocities data
3.	OTHER ACTIVITIES	Continue processing for flow and velocity measurements from previous months	Processed flow and velocity data Velocities sections
		Contributions to Monthly Report 75	Hydromorphology Chapter and Annex 6.5
		Contribution to Interim Report 17	Hydromorphology Chapter and Annexes

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



6.3.8 Expert position: MACROPHYTES AND PHYTOPLANKTON EXPERT - Florica Marinescu

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> ▪Preparing the sampling containers for phytoplankton samples ▪Preparing the reagents for samples preservation in field conditions; ▪Preparing the necessary documents for „in field” samples registration 	Ensuring the conditions for sampling campaign
2.	CONDUCTING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES (07.07.2017 - phytoplankton; 14.07.2017 - macrophytes)	<ul style="list-style-type: none"> ▪Specific sampling activities for phytoplankton and macrophytes from CP 01, CP 02, CP 10, CP 03A, 03B, 04A, 04B,07 ▪In field determination of macrophytes species ▪Sampling and preserving macrophytes which were not determined in the field ▪Samples fixation according to the standard in force ▪Completing the sampling bulletins for phytoplankton and macrophytes 	<ul style="list-style-type: none"> - 11 average phytoplankton samples (left, center, right bank) - 40 macrophytes samples, collected and analyzed - sampling bulletins
3.	▪LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪Microscopic identification of organisms in phytoplankton composition ▪Quantitative microscopic analysis of algal units in phytoplankton 	Results on quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪Drafting the list of phytoplankton species identified in collected samples ▪Calculation of density and biomass for phytoplankton samples ▪Calculation of saprobic and Simpson diversity indices for phytoplankton samples ▪Drafting the list of species for macrophytes 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 to Monthly Report no. 75 - Chapter aquatic flora and fauna monitoring (except for ichthyofauna) 	Monthly Report 75 - Chapter F

Expert,
PhD biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



6.3.9 Expert position: ZOOPLANKTON EXPERT - Adina POPESCU

MONTHLY REPORT 1 - 31 July 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR ZOOPLANKTON	<ul style="list-style-type: none"> ▪ Preparing the sampling and concentration containers/equipments ▪ Preparing the reagents for samples preservation in field conditions; ▪ Preparing the necessary documents for „in field” samples registration 	Ensuring the optimum conditions for sampling campaign
2.	SAMPLING CAMPAIGN FOR ZOOPLANKTON (14.07.2017)	<ul style="list-style-type: none"> • Specific activities for zooplankton sampling, from critical points 01, 02, 10, 03A, 03B, 04A, 04B, 07 • Samples fixing, labeling • Completing the sampling bulletins for zooplankton 	<ul style="list-style-type: none"> ▪ 60 sample units collected ▪ Sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> • Preparing the samples for microscopic analysis • Microscopic determination of the species in zooplankton composition • Drafting the list of organisms species in zooplankton composition • Microscopic counting of zooplanktonic species (quantitative analysis) 	<ul style="list-style-type: none"> ▪ 60 sample units analyzed ▪ Results on quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> • Indicatori calculation: the number of species and indices specific for diversity • calculation of the density and biomass for zooplankton species • interpretation of the quality data resulting from zooplankton analyzes 	<ul style="list-style-type: none"> ▪ values of quality indicators

Expert,
Adina POPESCU

Project Leader,
Dr. ing. DEÁK György



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6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

MONTHLY REPORT 1 - 31 July 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> Qualitative and quantitative analysis for benthic macroinvertebrates samples collected from CP 01, 02, 10, 03A, 03B, 04A, 04B, 07 (Campaign 15.06.2017) 	<ul style="list-style-type: none"> 35 selected and analyzed sample units
2.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> calculating abundance and numerical density on taxonomic groups for benthic macroinvertebrates calculating of Shannon-Wiener diversity index for macroinvertebrates drawing up the list of saprobiological indicators for water quality graphical representation of quality data resulting from macroinvertebrates samples analyzes 	<ul style="list-style-type: none"> values for quality indicators

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION	Logistic preparation and time planning of phytosociological survey points in the permanent plots, for critical points stipulated in the Specifications for this monitoring period.	Ensuring the optimum conditions for monitoring campaign
2.	MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION (25, 26, 27, 28, 31.07.2017)	Conducting the monitoring activities in critical points 01, 02, 10, 03A, 03B, 04A, 04B and 07. In these locations were placed phytosociological survey points according to Braun-Blanquet methodology, being recorded parameters as required in Specifications for vegetation characterization.	Were made a total of 12 phytosociological survey points in permanent plots

Expert,
Frink József Pál

Project Leader,
Dr. ing. 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.	ANTHROPIC IMPACT MONITORING (12, 17.07.2017)	<ul style="list-style-type: none"> ○ field campaign in main critical points areas and in secondary critical points to set out the fixed and mobile sources for noise and emissions, in order to establish the anthropization degree; 	<ul style="list-style-type: none"> - data - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to Monthly Report 75 	Reports

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Processing the primary data related with aquatic and terrestrial ecosystems for Interim Report 17	Setting of primary statistical values	Primary statistical parameters
2.	Coroboration of the monitoring results for abiotic and biotic parameters for Interim Report 17	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variations

Expert assessor,
 PhD Marian TUDOR

Project Leader,
 PhD eng. DEÁK György