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Națională Agency de Protecție Mediului
județ Prahova/Bolșea



Ministerul de Educație și Cercetare
2007-2013



TRANSPORTS AND INFRASTRUCTURE
TRANS
ROMANIA - ROMANIA - ROMANIA

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.71: 1 – 31 March 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.71	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ RA Galati guidelines 	Monthly Report 71
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 71 of the project activity		
7	Coordinate the completion of Interim Report 15		
8	Elaborate the project activities program for the next period (1 - 30 April 2017)		

Project leader,
PhD eng. Deák György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR SOIL, WATER AND SEDIMENTS	<ul style="list-style-type: none"> ▪ Preparation of sampling recipients (depending on chemical indicators) for soil, water and sediments; ▪ Preparation of reagents for water samples fixation in field conditions; ▪ Laboratory and field AMC calibration; ▪ Preparing a set of reagents 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 (17.03.2017; 20.03.2017)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP01, CP02, CP10, CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ The compliance to geographical coordinates for each sampling point has been checked; ▪ The samples were labelled; ▪ For each water and sediment sample was 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"> ▪ 100 water samples ▪ 40 sediment samples
3.	SAMPLING CAMPAIGN FOR SOIL (20.03.2017)	<ul style="list-style-type: none"> ▪ Soil sampling from CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ The compliance to geographical coordinates for each sampling point has been checked; ▪ The samples were labelled; ▪ For each soil sample was 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 soil, water and sediment quality
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Contribution to Monthly Report 71 drafting ▪ Contribution to Interim Report 16 drafting ▪ Contribution to Interim Report 15 completion 	

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 (chemist2)

MONTHLY REPORT 1 - 31 March 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, campaign 68 (16,22,24.03.2017)	For secondary critical points CP(03 A, 03 B, 04 A, 04 B, 07)	Point values for noise level
2.	Conducting the campaign for air measurements/ sampling, campaign 65 (16,22,24.03.2017)	For secondary critical points CP(03 A, 03 B, 04 A, 04 B, 07)	Preliminary values for air quality indicators
3.	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 71 drafting (chapters Air and Noise Monitoring) ○ Contribution to Interim Report 15 	Monthly Report 71 Interim Report

Expert,
PhD chem. Adriana Borș

Project leader,
PhD eng. DEÁK György



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 (22, 23, 24.03.2017)	<ul style="list-style-type: none"> - sturgeons migration monitoring with the monitoring systems; - data downloading from the monitoring systems; - sturgeons migration monitoring with mobile device VR100; - performing bathymetric measurements in bottom sill area on Bala branch and adjacent during sturgeons migration monitoring 	Database
2.	Other activities	<ul style="list-style-type: none"> - Contribution to Monthly Report 71 and Interim Report 15, 16; - drafting the synthesis report regarding the results from the sturgeons monitoring, during April 2011 - October 2016. 	Reports

Expert,
PhD eng. Victor CRISTEA

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 March 2017	Statistical processing of level, temperature and turbidity data recorded in March 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 Interim Report 17	Processing and interpretation of specific data.	Drafting of hydrology subchapter for hydromorphological activity and Annex 6.5.

Expert,
PhD eng. George POTERAŞ

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	Single-beam bathymetric measurements in main critical points for sections profiling	Bathymetric data, primary and processed, bathymetric transversal profiles
2	MONITORING CAMPAIGN	ADCP measurements for velocity and flow on the monitoring sector	Unprocessed velocities data
3.	OTHER ACTIVITIES	Contributions to Monthly Report 71	Hydromorphology Chapter and Annex 6.5
		Program proposal drafting for 1 - 30 April 2017	Program

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 (17.03.2017; 20.03.2017)	<ul style="list-style-type: none"> ▪ Specific sampling activities for phytoplankton and macrophytes from 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"> - 15 phytoplankton samples (left, center, right bank) - 20 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. 71 - Chapter aquatic flora and fauna monitoring (except for ichtyofauna) ▪ Contribution to Interim Report 16 	Monthly Report 71 - Chapter F

Expert,
PhD biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CONDUCTING THE OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES (20.03.2017)	- Have been monitored the presence/absence of lumbricides in soil samples collected from critical points locations: CP03 (A and B), PC04 (A and B) and PC07;	Observations regarding the presence/absence of the lumbricides
2.	OTHER ACTIVITIES	- Preparing the observation campaign - Assessing the distribution of lumbricides in monitoring areas - Contribution to Monthly Report 71	

Expert,
ȘERBAN Cecilia

Project Leader,
PhD eng. DEÁK György



6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> ▪Preparing sampling containers ▪Preparation of reagents for samples fixation in field conditions; ▪Preparing the necessary documents for „in field” samples registration 	Ensuring the optimal conditions for sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (17.03.2017)	<ul style="list-style-type: none"> • Collecting samples of aquatic macroinvertebrates from critical points 01, 02, 10, 03A, 03B, 04A, 04B, 07 • Samples fixation, labelling • Completing the sampling bulletins for aquatic macroinvertebrates samples 	<ul style="list-style-type: none"> ▪ 40 collected sample units ▪ sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> • Additional sorting of benthic macroinvertebrates samples collected taken to select the benthic organisms and to carry out further investigations • Qualitative and quantitative analysis for collected benthic macroinvertebrates (15 samples) 	<ul style="list-style-type: none"> ▪ 40 selected sample units ▪ 15 analyzed sample units

Expert,
Luiza FLOREA

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.	ANTHROPIC IMPACT MONITORING (16, 24.03.2017)	<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 71 	Reports

Expert,
AMBRUS Laszlo

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.	Primary data processing for aquatic and terrestrial ecosystems in Interim Report 16	Setting of primary statistical values	Primary statistical parameters
2.	Corroboration of monitoring results for abiotic and biotic parameters for Interim Report 16	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variations

Expert,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György