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Națională Agency de Protecție Mediului  
județ Prahova Bălănești



Ministerul de Educație și Cercetare  
2007-2013



TRANS  
MĂRIȘTELE DE ÎNĂLȚĂRI, 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.74: 1 – 30 June 2017

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## ANNEX 6.3.

### EXPERTS' ACTIVITY REPORTS



6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

**MONTHLY REPORT**  
**1 - 30 June 2017**  
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.74	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ RA Galati guidelines</li> </ul>	Monthly Report 74
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> <li>○ Elaboration of the addresses sent to AFDJ Galati</li> </ul>	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Checking the continuous monitoring stations, velocity measurements and bathymetry</li> <li>○ Checking the monitoring stations for sturgeons</li> <li>○ Checking the sampling campaigns</li> </ul>	
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"> <li>○ Working meetings</li> </ul>	
5	Approval of experts' monthly activity reports		
6	Checking and approving the documents elaborated in month 74 of the project activity		
7	Coordinate the completion of Interim Report 16		
8	Elaborate the project activities program for the next period (1 - 31 July 2017)		

Project leader,  
PhD eng. Deák György



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

## MONTHLY REPORT 1 - 30 June 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ORGANISING SAMPLING CAMPAIGN FOR SOIL, WATER AND SEDIMENTS</b>	<ul style="list-style-type: none"> <li>▪ Preparation of sampling recipients (depending on chemical indicators) for soil, water and sediments;</li> <li>▪ Preparation of reagents for water samples fixation in field conditions;</li> <li>▪ Laboratory and field AMC calibration;</li> <li>▪ Preparing a set of reagents for field and laboratory analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ensuring the proper conditions for sampling campaign</li> </ul>
2.	<b>SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS (13.06.2017; 26.06.2017)</b>	<ul style="list-style-type: none"> <li>▪ Water and sediments sampling from CP01, CP02, CP10;</li> <li>▪ The compliance to geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples were labelled;</li> <li>▪ For each water and sediment sample was completed a registration bulletin for the sampling activity;</li> <li>▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality;</li> <li>▪ Water samples have been fixed according to actual standards to determine indicators in the laboratory.</li> </ul>	<ul style="list-style-type: none"> <li>▪ 50 water samples</li> <li>▪ 20 sediment samples</li> </ul>
3.	<b>SAMPLING CAMPAIGN FOR SOIL (13.06.2017)</b>	<ul style="list-style-type: none"> <li>▪ Soil sampling from CP01, CP02, CP10, CP 03 (A and B), CP 04 (A and B) and CP 07;</li> <li>▪ The compliance to geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples were labelled;</li> <li>▪ For each soil sample was completed a registration bulletin for the sampling activity;</li> </ul>	<ul style="list-style-type: none"> <li>▪ 38 soil samples</li> </ul>
4.	<b>PHYSICAL- CHEMICAL LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Conducting the specific standard procedures for analytical data quality assurance.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Preliminary data regarding soil, water and sediment quality</li> </ul>
5.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Contribution to Monthly Report 74 drafting</li> <li>▪ Contribution to Interim Report 16 drafting</li> </ul>	

**Expert,**  
PhD eng. Gina GHIȚĂ

**Project leader,**  
PhD eng. DEÁK György



### 6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist 2)

**MONTHLY REPORT**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, campaign 69 (12, 15, 21.06.2017)	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 66 (12, 15, 21.06.2017)	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"> <li>○ Measurements analysis</li> <li>○ Participation to the meetings of the project implementation team, in order to plan and conduct future activities</li> <li>○ Contribution to Interim Report 16</li> <li>○ Contribution to Monthly Report 74</li> </ul>	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

**MONTHLY REPORT**  
**1 - 30 June 2017**  
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Monitoring of sturgeons' migration CP01 and CP02 (21, 22.06.2017)	- data downloading from the monitoring systems;	Report
2.	Other activities	Processing the data from January-April 2017 for Interim Report 17 drafting	Report

**Ichthyologist Expert,**  
PhD eng. Victor CRISTEA

**Project Leader,**  
PhD eng. DEÁK György



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

**MONTHLY REPORT**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Monitoring of shad migration	Data processing related to scientific fishing on Alosa species	<ul style="list-style-type: none"> <li>- shad distribution on the monitoring areas</li> <li>- structure by size and age classes</li> <li>- genders ratio</li> </ul>
2.	Other activities	Contribution to Monthly Report 74 and Interim Report 16	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

**MONTHLY REPORT**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing for turbidity, temperature and relative level, recorded in automatic stations in June 2017	Statistical processing of level, temperature and turbidity data recorded in June 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 74	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

**MONTHLY REPORT**  
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Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN</b> (06, 07, 08, 09, 12, 13, 14, 15, 26, 29.06.2017)	Multi-beam bathymetric measurements in critical points CP01 and CP02	Bathymetric data, primary and pre-processed
		Single-beam bathymetric measurements in main critical points for sections profiling	
2	<b>MONITORING CAMPAIGN</b> (06, 07, 08, 09, 12, 13, 14, 15, 26, 29.06.2017)	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 74 and Interim Report 16	Hydromorphology Chapter and Annexes
		Drafting the program proposal for 1-31 July 2017 period	Program

**Expert,**  
PhD eng. Gh. Viorel UNGUREANU

**Project Leader,**  
PhD eng. DEÁK György





### 6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

**MONTHLY REPORT**  
**1 - 30 June 2017**  
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CONDUCTING THE OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES  (13.06.2017)	- Have been monitored the presence/absence of lumbricides in soil samples collected from critical points locations: CP01, CP02, CP10, 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 74	

**Expert,**  
ȘERBAN Cecilia

**Project Leader,**  
PhD eng. DEÁK György



### 6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

**MONTHLY REPORT**  
**1 - 30 June 2017**  
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES</b>	<ul style="list-style-type: none"> <li>▪ Preparing sampling containers</li> <li>▪ Preparation of reagents for samples fixing in field conditions;</li> <li>• Preparing the necessary documents for „in field” samples registration</li> </ul>	Ensuring the optimal conditions for sampling campaign
2.	<b>SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (15.06.2017)</b>	<ul style="list-style-type: none"> <li>• Collecting samples of aquatic macroinvertebrates from critical points 01, 02, 10, 03A, 03B, 04A, 04B, 07</li> <li>• Samples fixing, labelling</li> <li>• Completing the sampling bulletins for aquatic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>▪ 40 sample units</li> <li>▪ sampling bulletins</li> </ul>
3.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>• sorting of benthic macroinvertebrates samples collected to select the benthic organisms and to carry out further investigations</li> <li>• Qualitative and quantitative analysis for collected benthic macroinvertebrates</li> </ul>	<ul style="list-style-type: none"> <li>▪ 15 selected sample units</li> <li>▪ 15 analyzed sample units</li> </ul>

Expert,  
Luiza FLOREA

Project Leader,  
PhD eng. DEÁK György



### 6.3.13 Expert position: AVIFAUNA MONITORING EXPERT - JOZSEF SZABO

## MONTHLY REPORT 1 - 30 June 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p><b>MONITORING CAMPAIGN FOR AVIFAUNA - SPRING SEASON</b></p> <p>(06, 07, 08, 09, 12.06.2017)</p>	<ul style="list-style-type: none"> <li>○ Field campaign in CP01 <ul style="list-style-type: none"> <li>▪ Census of nesting avifauna</li> <li>▪ Avifauna observation from the shore and from the boat</li> </ul> </li> <li>○ Field campaign in CP04 <ul style="list-style-type: none"> <li>▪ Census of nesting avifauna</li> <li>▪ Avifauna observation from the shore and from the boat</li> </ul> </li> <li>○ Field campaign in CP02 <ul style="list-style-type: none"> <li>▪ Census of nesting avifauna</li> <li>▪ Avifauna observation from the shore and from the boat</li> </ul> </li> <li>○ Field campaign in CP03 <ul style="list-style-type: none"> <li>▪ Census of nesting avifauna</li> <li>▪ Avifauna observation from the shore and from the boat</li> </ul> </li> <li>○ Field campaign in CP07 <ul style="list-style-type: none"> <li>▪ Census of nesting avifauna</li> <li>▪ Avifauna observation from the shore and from the boat</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ observation sheets;</li> <li>○ data</li> <li>○ photos</li> <li>○ lists of species</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>○ Analysis and processing the data from campaign</li> <li>○ Contribution to Monthly Report 74</li> <li>○ Contribution to Interim Report 16</li> </ul>	Reports

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 - 30 June 2017**  
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ANTHROPIC IMPACT MONITORING</b> (12, 15.06.2017)	<ul style="list-style-type: none"> <li>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;</li> </ul>	<ul style="list-style-type: none"> <li>- data</li> <li>- photos</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>Contribution to Monthly Report 74</li> </ul>	Reports

**Expert,**  
AMBRUS Laszlo

**Project Leader,**  
PhD eng. DEÁK György



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

**MONTHLY REPORT**  
**1 - 30 June 2017**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing for terrestrial and aquatic ecosystems for Interim Report 16	Setting of primary statistical values	Primary statistical parameters
2.	Coroboration of the monitoring results for abiotic and biotic parameters for Interim Report 16	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variations
3.	Processing the primary data related with aquatic and terrestrial ecosystems for Interim Report 17	Setting of primary statistical values	Primary statistical parameters

**Expert assessor,**  
PhD Marian TUDOR

**Project Leader,**  
PhD eng. DEÁK György



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

**MONTHLY REPORT**  
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No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Completion of data for medium scale modelling, on the basis of in situ measurements	Processing activities of data measured and preparation of datasets for medium scale modelling, in the critical point 01 area	Input data required to create the hydrodynamic model
2	Comparative analyses used as reference data for numerical modelling	Comparative analyzes were performed regarding the results obtained from multi-beam bathymetry and ADCP measurements during the pre-construction and post-construction period.	The database needed to perform numerical simulations

Expert,  
 PhD Helmut HABERSACK

Project Leader,  
 PhD eng. DEÁK György