

**SUPPORT TO UKRAINE  
IN APPROXIMATION OF THE EU  
ENVIRONMENTAL *ACQUIS***

**EuropeAid/135825/DH/SER/UA**

**Workshop on Water Framework Directive and  
Floods Directive  
*Training block A*  
Lviv 12. -13. April 2016  
Report**

April 2016

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## LIST OF ABBREVIATIONS

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Acronyms	Meaning
AA	Association Agreement
APENA	Project “Support to Ukraine in approximation of the EU environmental <i>acquis</i> ”
APSRF	Areas of Potentially Significant Flood Risks
CA	Contracting Authority
CMU	Cabinet of Ministers of Ukraine
DSIP	Directive Specific Implementation Plan
DWD	Drinking Water Directive
EC	European Commission
EMBLAS	Environmental Monitoring in the Black Sea
EPIRB	Environmental Protection of International River Basin Project
EU	European Union
EUD	European Union Delegation
FD	Floods Directive
GIS	Geographic Information System
HCSSE	Hydro-meteorological Centre of the State Service of Emergencies
ICPDR	International Commission for the Protection of the Danube
IWRM	Integrated Water Resources Management
KE	Key Expert
MAPF	Ministry of Agrarian Policy and Food
MEDT	Ministry of Economic Development and Trade
MENR	Ministry of Ecology and Natural Resources
MFA	Ministry of Foreign Affairs
MHC	Ministry of Health Care
MOJ	Ministry of Justice
MoM	Minutes of Meetings
MRDCHCA	Ministry of Regional Development, Construction, Housing and Communal Affair
MSFD	Marine Strategy Framework Directive
ND	Nitrates Directive
NGO	Non-Governmental Organization
NKE	Non Key Expert
NVZ	Nitrate Vulnerable Zone
PFRA	Preliminary Flood Risk Assessment
PPRD-EAST	Prevention, Preparedness and Response to Man Made and Natural Disasters in the East region
PR	Public Relations
RBD	River Basin District
RBMP	River Basin Management Plans
SAWR	State Agency of Water Resources
SBS	Sector Budget Support
SC	Steering Committee
SIP	Stakeholder Involvement Plan
SPA	Special Protection Area
TL	Team Leader
ToR	Terms of Reference



**Support to Ukraine in approximation of the EU environmental *acquis***

**UWWTD** Urban Waste Water Treatment Directive  
**WFD** Water Framework Directive  
**WG** Working Group



## 1. INFORMATION ON THE EVENT

The APENA project started implementation of the Training Programme in water sector with the Workshop/Training on the Water Framework Directive and the Floods Directive in Lviv, 12–13 April, 2016 (Malekhiv village, Lviv rayon, Hotel Mars).

Training was aiming at understanding the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive.

## 2. MAIN OBJECTIVES OF THE EVENT AND RELATION TO THE PROJECT ACTIVITIES

The main objectives of this event were to understand the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive, being the participants autonomous in identification, delineation and typology of the surface water bodies and preparation of PFRA.

In order to fulfil these objectives training provided the participants with following information (see Agenda, **Annex A**):

- Brief lectures of EU theory and good practices including requirements of the AA, listed in Annex XXX;
- Introduction Legal substantiation of draft laws developed under the project in this field;
- Hands-on case studies and exercise addressing specific situation in Ukraine, related to above mentioned topics, particularly requirements of the WFD and FD.

### 2.1. Relation to the Project activities – an overall overview

Introductory part according to Workshop agenda:

Agenda item	Activity No	Project activities
Presentation of the provisions of the Directives from EU-UA Association Agreement	Activity 2.2.3	Legal substantiation and support in developing of 10 new legal acts
Progress in transposition of EU water sector requirements	Activity 2.2.3	Directive Specific Implementation Plans progress APENA project Brief Legal Plans for WFD and the FD
Transposition of the WFD and the FD	Activity 2.2.3	Amendments to Water Code - State of art

### 2.2. Relation to the Project activities – the WFD

The presentations of the trainers and hands-on case studies as well as and working groups exercise conducted during the event were related to following the Project activities according to Workshop agenda:



Agenda item	Activity No	Project activities
Training session #1: Delineation of river basin and sub – river basins	2.2.3 and 2.2.10	Develop the draft Order of the MENR “On identification of sub-basins and water management units within river basin districts”
Training session #2: Typology, Reference Conditions and Classification Systems.	2.2.3 and 2.2.10	Identify SWB categories as lakes, transitional waters, coastal waters and methodology of the identification of surface and groundwater bodies
Training session #3: Identification and designation of heavily modified and artificial water bodies	2.2.3 and 2.2.10	Develop the draft Order of the MENR “On the methodology of the identification of surface and groundwater bodies”.

### 2.3. Relation to the Project activities – the FD

The presentations of the trainers and hands-on case studies as well as and working groups exercise conducted during the event were related to following the Project activities according to Workshop agenda:

Agenda item	Activity No	Project activities
Training session #4: Preliminary flood risk assessment	2.2.3 and 2.2.12	Develop a preliminary flood risk assessment methodology adapted to the Ukrainian context
Preliminary flood risk assessment – examples from the EU member states	2.2.3 and 2.2.12	Develop a preliminary flood risk assessment methodology.

## 3. PARTICIPANTS

Participants of the workshop (32 participants) from:

- Western Ukraine - 7 oblast (Volyn, Rivne, Lviv, Ternopil, Ivano-Frankivsk, Chernivtsy, Zakarpattia regions) included representatives of State Agency of Water Resources (SAWR);
- River basin authorities (RBAs /БҮБР);
- Ukrainian Hydrometeorological Service, Oblast Hydrometeorological Centres (OHS).

List of participants is available in **Annex B** of this Report.

## 4. MAIN INPUTS PROVIDED BY THE PROJECT

Main inputs to the event provided by the project comprised of the Project team experts and the invited speakers presentations during the plenary sessions and the working group training sessions.



#### 4.1 Subject of inputs and Speakers:

**Presentation of the provisions of the Directives from EU-UA Association Agreement (AA),** *Bartkova Eleonora KE3:*

Participants were informed about provisions of the EU water directives concerned the EU – UA, AA requirements, regarding the transposition and implementation and APENA project support in this field.

1. Water Framework Directive (2000/60/EC establishing a framework for Community action in the field of water policy (WFD) and amendments)
2. Floods Directive (2007/60/EC on the assessment and management of flood risks)
3. Marine Strategy Framework Directive (2008/56/EC Directive establishing a framework for Community action in the field of marine environmental policy)
4. UWWTD Directive (91/271/EEC on urban waste water treatment and regulatory amendments)
5. Drinking Water Directive (98/83/EC on quality of water intended for human consumption and regulatory amendment)
6. Nitrates Directive (91/676/EC concerning the protection of waters against pollution caused by nitrates from agricultural sources and regulatory amendment)

**Progress in transposition of EU water sector requirements,** *Vykhryst Serhiy, Legal NKE*

- Implementation Plan for the Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for Community action in the field of water policy as amended by Decision No 2455/2001/EC and Directive 2009/31/EC.
- Implementation Plan for the Floods Directive (2007/60/EC on the assessment and management of flood risks):
  - Goal and objectives of the Implementation Plan;
  - Brief description of current state of play in implementing the EU *acquis* in Ukraine and expected results of implementation;
  - Measures of the Implementation Plan.

**Amendments to Water Code - State of art,** *Khorev Mykhailo, SAWR*

An explanation of approaches on preparation of Draft Law of Ukraine amending the Water Code of Ukraine (reg. #3603) to support the transposition of the WFD and FD.

**Training session #1: Delineation of river basin and sub – river basins,** *Grebin' Vasyl, invited speaker, Kyiv national University*

- Delineation of river basin and sub – river basins explanation, examples from the EU MSs;
- Current situation – UA approach in the delineation of river basin and sub – river basins;
- Identification of the transitional and coastal waters;
- Identification of ground water bodies within river basin and sub – river basins.

**Training session #2: Typology, Reference Conditions and Classification Systems,** *Iarochevitch Alexei - Water policy NKE*

- Introduction of the EU Guidance Document No. 2 - Identification of Water Bodies.



- Purpose of surface water bodies (SWBs) delineation and the methodology.
- Introduction of the EU Guidance Documents No. 10 - River and lakes – Typology, reference conditions and classification systems.
- Working groups session: - practical exercise on SWBs delineation.

**Training session #3: Identification and designation of heavily modified and artificial water bodies, Konovalenko Oxana, Local NKE for the WFD**

- Introduction of the EU Guidance Document No. 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies.
- Purpose of identification of and designation of Heavily Modified and Artificial Water Bodies and the methodology.
- Working groups session: - practical exercise on Heavily Modified and Artificial Water Bodies delineation.

**Objectives of the working group training session:**

1. To demonstrate peculiarity of artificial and heavily modify water bodies.
2. To Describe overall HMWB & AWB designation process, giving a short description of an individual steps leading to identification of HMWB and AWB
3. To explain details of steps leading to provisional identification of HMWB from water body identification to the question as to whether the changes in the water body characteristics are result of physical alterations by human activity
4. To inform the participants of the training the other approaches of Identification and Designation of the heavily modify and artificial water bodies according to ICPDR's way and other national approaches
5. To show some examples of designation of heavily modify in the Tisza River basin
6. To present existing data for HMWB & AWB designation process in a river basins districts.

**Working group assignments**

Several tasks were suggested for the participants of the training:

1. To assess existing data for HMWB& AWB designation process in the river basins districts. To evaluate sufficiency of an existing data for identification HMWB and AWB?
  - 1.1. Hydrological information, which characterized changes in hydrological regime
    - water level fluctuation
    - minimal and maximal water flow changes
  - 1.2. Actual topographic and cartographic materials:
    - maps
    - satellite
  - 1.3. Water management information: stored, such as drinking-water supply, power generation or irrigation; water regulation, flood protection, land drainage, channel regulation (for example: channel dredging, cut-off channel); hydrotechnical structure (bank protecting construction, dam (flood dam, quay), sluice and other.
  - 1.4 GIS data or integrated national GIS





2. To comment technical feasibility of carrying out to make a preliminary identification of HMWB for water bodies in your RBD
3. Try to designate HMWB and AWB natural water body on the given examples/maps

**Training session #4: Preliminary flood risk assessment, Kanstantsin Tsitou, International Non-Key Floods Directive Expert**

- An overview of the Floods Directive 2007/60/EC on the assessment and management of flood risks) requirements focusing on Preliminary flood risk assessment (PFRA).
- Working group assignments

*Objectives of the working group training session:*

1. To acquaint the participants of the training with the approaches of the EU Flood Directive, its content and requirements;
2. To demonstrate to the participants of the training methodology and examples of Preliminary flood risk assessment in accordance with EU Flood Directive;
3. To assess sufficiency of data and possibility of performance of PFRA in the regions / river basins of the training.

*Working group assignments:*

3 tasks were suggested to the participants of the training:

1. Comment how floods are "accounting" in your region / river basin
  - 1.1. Which hydrological information is collecting / processing in flood context?
  - 1.2. If the flood damage is estimating?
  - 1.3. Which format of "flood information" (data bases, paper reports, maps)?
  - 1.4. Is the "flood information" available for specialists, people?
2. Comment the technical feasibility of carrying out PFRA in your region / river basin
  - 2.1 Could you provide such PFRA?
  - 2.2 Is it possible to use unique water management GIS, unique raster map?
  - 2.3 Evaluate the sufficiency of existing data for evaluation?
  - 2.4 What would you propose to "improve the situation" right now?
3. Try to mark on the given map areas in your region / river basin with potentially significant flood risks.

**Preliminary flood risk assessment – examples from EU member states, Bartkova Eleonora KE 3**

- Slovak Republic approach
  - Transposition of the Floods Directive
  - Preliminary flood risk assessment - methodology
- Czech Republic approach
  - Preliminary flood risk assessment - methodology

#### **4.2 Training materials:**

Participants were provided with following the EU Guidance documents as working papers in Ukrainian language in advance via email:

- No. 2 - Identification of Water Bodies.
- No. 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies.



- No. 10 - River and lakes – Typology, reference conditions and classification systems.

All presentations (**Annex C**) are published on the APENA website:

<http://www.env-approx.org/index.php/en/news/42-workshop-on-water-framework-directive-and-floods-directive.html>

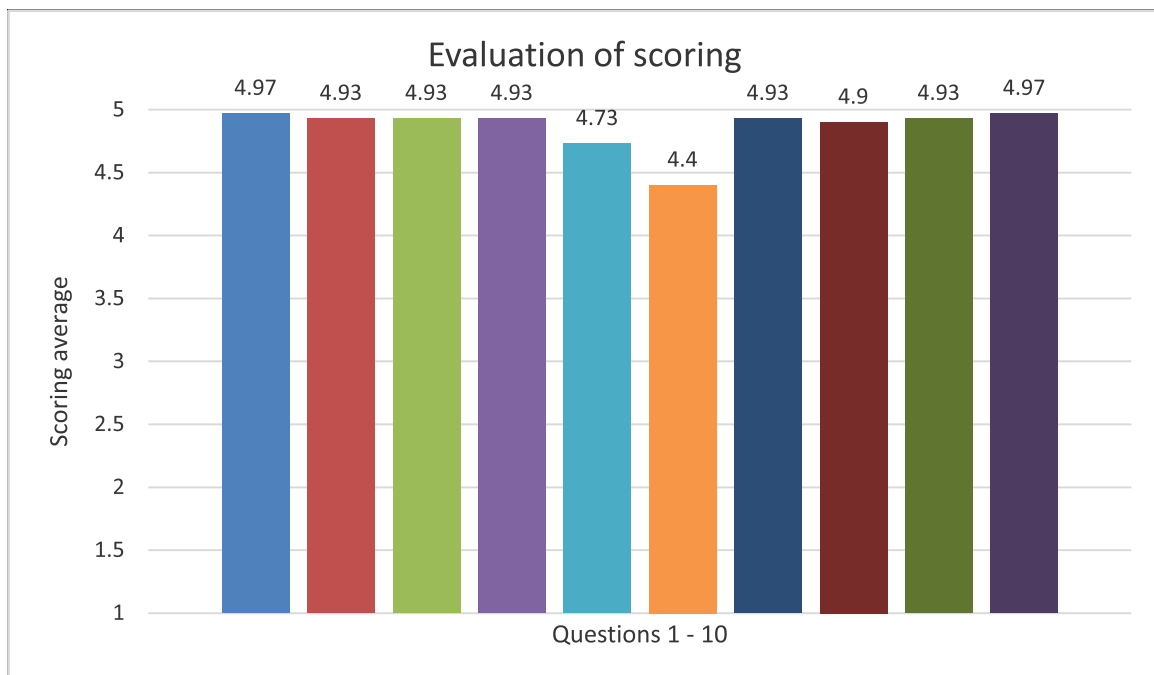
## 5. ASSESSMENT OF EVALUATION OF QUESTIONNAIRES

In order to measure the impact of knowledge transfer achieved in training workshop, this event was concluded before closure by an anonymous questionnaire. Anonymity was ensured by the willingness of the participants to participate and provide answers.

The evaluation questionnaires were disseminated to all participants. The project team after the event collected 30 evaluation questionnaires filled in by participants having received the scoring table and an overview of which questions or issue were well understood and answered and which were misunderstood and need re-addressing at future occasion.

### **Summary of questionnaires evaluation:**

The scoring tables related to ten questions presents an average scoring from 4,97 to 4,4 (5 score is the best), see Figure 1. The lowest score is recorded for question “Have you acquired information and knowledge that is new to you?” This result indicates, that the some of participants are quite familiar with topics of the Workshop. On the other hand, this their knowledge allowed them to successfully fulfil groups assignments.



**Figure 1 Scoring evaluation**

Beside of scoring tables the Evaluation questionnaire contained three requests for comments:

- 1. Please provide us with recommendations of what could be improved next time such training is held.**



Out of 30 participants nine (9) provided answers - 30% of participants. Following comments were obtained:

- More extensive and detailed
- Absence of MENR representatives. It is necessary to know their point of view about these directives implementation.
- It will be good to have MENR representatives on the seminar.
- This seminar-workshop was on the good level. Quiet interesting and informative. The practical part helped to understand the theoretical one.
- 1) More time for practical part; 2) For participants it is better to give more clear recommendations as for using those knowledges (methods, criteria for assessment, divisions, etc.); 3) To provide more information on EU experience of ... coordination on preliminary stage and during following 6-year periods.
- The seminar was held at a high level, was interesting and informative for father understanding and Directives implementation. Thanks.
- No comments. The theory was together with practical and interesting tasks.
- Useful in a proper time, organisation is good. I like the practical tasks. Not enough time for workshop. Not everybody had a chance to introduce themselves. It will be great to have all this presentation on a project web-site. I don't have all the training materials (there weren't enough pieces) and they help. Presentations are interesting.
- It will be good to have at the seminar the representatives of ecology sphere (Regional State Administration) and Ministry of Emergency both from regions and ministers (Kyiv). So that they could see what is waiting for them.

**2. Please provide us with recommendations of what could be improved next time such training is held.**

Out of 30 participants nine (9) provided answers - 30% of participants. Following comments were obtained:

- Thank you for the seminar-workshop. Everything was great!
- To discuss a real situation (real object) on the workshop
- Such seminars should be held more often.
- To have more time for practical work.
- In following workshop to continue using practical part and to develop this part as much as possible.
- Participation of State Emergency Service representatives.
- Recommendation - to make a video of the lectures in order to spread this information in other organisations and to held such seminars in all regions.
- I wish the project –would it be possible to make some changings at the Water Committee of Ukraine (BKY). Good luck!
- Use not only the theoretical knowledge but also to consider real places and objects.

**3. Any other remarks.**

Out of 30 participants five (5) provided answers – 16,6% of participants. Following comments were obtained:

- I am asking to upload all the materials on the website.
- Hotel was without heating.
- Please held such seminars more often.
- Thanks! Good luck!



All relevant comments will be taken into account during preparation of the next workshops and are incorporated into conclusions and recommendations.

## 6. IMPACTS ACHIEVED

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Based on the feedback obtained from participants using the Evaluation questionnaire as well as discussions held after all training sessions it is possible to note that Lviv workshop significantly contributed to capacity strengthening of involved beneficiaries in following areas:

- Participants were informed about provisions of the EU water directives concerned the EU – UA, AA requirements, regarding the transposition and implementation and APENA project support in this field.
- Progress in transposition of the EU water sector requirements and preparation of Draft Law of Ukraine amending the Water Code of Ukraine (reg. #3603) to support the transposition of the WFD and FD.
- To understand the process of the delineation and typology of the surface water bodies in line with the WFD;
- Being the participants autonomous in identification, delineation and typology of the surface water bodies;
- Delineation of river basin and sub – river basins;
- Preliminary flood risk assessment (PFRA) according to the Floods directive;

Preparation of PFRA – working groups assignments results:

- In all 7 training regions (Volyn, Rivne, Lviv, Ternopil, Ivano-Frankivsk, Chernivtsy, Zakarpattia regions) account of floods is processed on similar scheme. Oblast Hydrometeorological Centres conduct water regime monitoring at the regular network of hydrological observations and if it is needed in flood areas.
- Despite certain difficulties it can be stated that in all 7 training regions it is possible to conduct PFRA.
- Participants of the training provided their vision of areas with significant flood risks in their regions on maps (see annex D. PFRA Working group outcomes).

## 7. CONCLUSIONS AND RECOMMENDATIONS

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### Conclusions:

Lviv Workshop/Training on the Water Framework Directive and the Floods Directive achieved proposed objectives to understanding the process of the delineation and typology of the surface water bodies in line with the WFD and Preliminary flood risk assessment (PFRA) according to the Floods directive.

### Recommendations:

Taking into account experiences acquired during this event and recommendations/the feedback gathered from the participants following steps will be implemented in order to improve the training process:

- To ensure an involve the MENR representatives and the representatives of ecology sphere (Regional State Administration) and Ministry of Emergency both from regions and ministers.
- To revise Agenda in order to provide more space for working group practical assignments.



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- More information and experiences from the EU Ms will be provided.
- To involve in the workshop, the representatives of ecology sphere (Regional State Administration) and Ministry of Emergency both from regions and ministers (Kyiv).
- To publish presentation and other workshop materials at APENA website.



**ANNEXES:**

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- A. Agenda**
- B. List of participants**
- C. Presentations**
- D. PFRA Working group session outcomes**
- E. Workshop photo documentation**