

SHORT-TERM MEASURES 2013

(effective waterway infrastructure maintenance in the Slovak republic)

5th Steering Group Meeting

EU Danube Region Strategy

Priority Area 1a

to improve mobility and intermodality: inland
waterways

April 17th – 18th 2013, Linz, Austria

Vladimír NOVÁK



WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

1) Riverbed measurement

Measures taken in the year 2012

Frequency:

Riverbed was measured annually, each stretches are rotated between Slovak and Hungarian side

Emplacement:

- rkm 1750,000 - 1708,000
- rkm 1880,200 - 1853,000

Equipment:

To measure is used a specialized vessel, single.

Costs:

91.300 EUR

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

2 Dredging of bottlenecks

Measures taken in the year 2012

Frequency:

Dredging in the fairway of Danube water way was from April to December 2012.

Emplacement:

Dredging localizations in the year 2012:

- r.km 1865,00 – 1864,200 from April to September
- Hrušov reservoir, r.km 34.200– 31.300 from May to December
- r.km 1790,00 – 1788,45 from August to September
- r.km 1725,80 – 1724,70 from September to October
- r.km 1732,55 – 1732,15 in November
- r.km 1779,80 – 1789,10 in November

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

2 Dredging of bottlenecks	
Measures taken in the year 2012	
Equipment: To ford dredging were used : -KDB 500 Podbansko; KDB 160 Vtáčnik; KDB 160 Turiec; KDE Branisko; KDE Šariš; Mep 120	
Costs: 1 358 000 Euros.	



WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2012

Frequency:

Staking (Signalling) of fairway was carried out by staking vessels for 2 days in every week, control of coastal navigation features and navigation control signaling on bridges was doing generally 1 x per week throughout the year



WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2012

Emplacement:

The setting (Signalling) of Danube fairway was realized on Danube stretch rkm 1873 – 1791, coastal navigation features on the left bank of Danube rkm 1880.2 – 1708, on the right bank of Danube from rkm 1873 – 1811 and also navigational staking of bridges: The Lafranconi bridge, The SNP bridge, The Old bridge, The port bridge, The Medvedov bridge and Komarno railway bridge

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2012

Type:

Staking (Signalling) vessels control condition and location of the floating signs, in case of loss or damage were exchanged for new, control the functionality of illuminating characters exchange damaged mechanisms and empty batteries.

The purpose the staking (signaling) of fairway was checking the location and navigation signs under the current Project of staking (signaling), re-staking (re-signalling) of fairway after regulatory dredging, re-measure of fairway depth, alternatively reporting new fords.

Coastal features were also checked, defective were exchanged, on bridges were mainly cares for the functionality of night signaling.

Costs:

387 000 Euros.

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2012

Measures planned in the year 2013

Type:

For some fords (shallow sections) and bottlenecks is given the following:

- stationing
- width and length of ford (shallow sections)
- water depth in ford (shallow sections)
- water level in the relevant water gauging station

Information about fords (shallow sections) provided the administrator of waterway daily to State Navigation Administration, which are available for vessels operators.

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2012

Frequency:

Information about ford sections (shallow sections) were published every day
In connection with the limited depth the “Navigation measures” have not issued in 2012



WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2012

Media:

Summary reports about fords (shallow sections) daily processed and forwarded by the Water management dispatching Bratislava (by e-mail or fax) for each branch of the State Navigation Administration and also of Slovak Water Management Enterprise, branch Bratislava. State Navigation Administration informed about these facts to skippers.

If the “Navigation measures” were issued, than as Notices to Skippers within the River

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

5) Procedures for Exceptional Circumstances

Measures taken in the year 2012

Type of circumstances:

Ice, floods, navigation accident and immediate threats of safe navigation

State:

Ongoing implementation of project CARES in corporation with HZ SR (Fire Force of the Slovak republic) and Austrian partner. Reaction activities are within national coordination controlled (managed) by Integrated Rescue System.

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

1) Riverbed measurement

Measures taken in the year 2013

Frequency:

Riverbed is measured annually, each stretches are rotated between Slovak and Hungarian side (on the slovak–hungarian stretch of Danube) the same situation between SK and AUT side

Emplacement:

- rkm 1811,000 - 1750,000
- rkm 1880,200 - 1853,000

Equipment:

To measure is used a specialized vessel, single.

Costs:

Estimated costs achieve approximately 100 thousand Euros.

Measures planned in the year 2014

Frequency:

During the year 2014 will be based on the measurements, that are enclosed with each other country. The idea is to focus on an annual basis the entire flow, while specific sub-sections are rotated at yearly intervals.

Emplacement:

- rkm 1750,000 – 1708,000
- rkm 1880,200 - 1853,000

Equipment:

In the year 2014 will be used the same technics as in the year 2013

Costs:

Estimated costs achieve approximately 100 thousand Euros in the year 2014.

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

2 Dredging of bottlenecks

Measures taken in the year 2013

Frequency:

Dredging in the fairway of Danube water way was not realized to March 31st 2013. Range and location of dredging for the year 2013 will be known after Regulatory dredging project approving approximately date – April 2014.

Measures planned in the year 2014

Proactive measures:

Range and location of dredging for the year 2014 will be known after Regulatory dredging project approving.

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

2 Dredging of bottlenecks

Measures taken in the year 2013

Equipment:
To ford dredging will be used :
-KDB 500 Podbansko; KDB 160 Vtáčnik; KDB 160 Turiec;
KDE Branisko; KDE Šariš; Mep 120

Costs:
Approximately 750 000 Euros.

Measures planned in the year 2014

Equipment:
In the year 2014 will be used for the most part the same technics. The new additional technics we don't have.

Costs:
For the year 2014 is expected similar budget i.e. 750 000 Euros.

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2013

Frequency:

Staking (Signalling) of fairway is carried out by staking vessels for 2 days in every week, control of coastal navigation features and navigation control signaling on bridges is doing generally 1 x per week throughout the year

Measures planned in the year 2014

Frequency:

In 2014 the frequency of fairway staking will be the same as in 2013.



WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2013

Emplacement:

The setting (Signalling) of Danube fairway is realized on Danube stretches:

- r.km 1880,260 – 1810,000;
- r.km 1791,000 – 1708,200

Coastal navigation features:

- on the left bank of Danube rkm 1880.2 – 1708,200
- on the right bank of Danube from rkm 1873 – 1811

Navigational staking of bridges:

The Lafranconi bridge, The SNP bridge, The Old bridge, The port bridge, The Medvedov bridge and Komarno railway bridge

Measures planned in the year 2014

Emplacement:

The same as in 2013.

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2013

Type:

Staking (Signalling) vessels control condition and location of the floating signs, in case of loss or damage are exchanged for new, control the functionality of illuminating characters exchange damaged mechanisms and empty batteries.

The purpose the staking (signaling) of fairway is checking the location and navigation signs under the current Project of staking (signaling), re-staking (re-signalling) of fairway after regulatory dredging, re-measure of fairway depth, alternatively reporting new fords.

Coastal features are also checked, defective are exchanged, on bridges are mainly cares for the functionality of night signaling.

Measures planned in the year 2014

Type:

In 2014 will be the staking (signaling) in the section carried out by the same activities as in 2013

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

3) Staking (Signalling) of fairway

Measures taken in the year 2013

Costs:

The costs for staking (signaling) of fairway (Center Operations of waterways) for 2013 are 400 thousands Euros.

Measures planned in the year 2014

Costs:

Planned budget for 2014 will be approximately the same i.e. 400 thousands Euros

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2013

Type:

For some fords (shallow sections) and bottlenecks is given the following:

- stationing
- width and length of ford (shallow sections)
- water depth in ford (shallow sections)
- water level in the relevant water gauging station

Information about fords (shallow sections) provides the administrator of waterway daily to State Navigation Administration, which are available for vessels operators.

Measures planned in the year 2014

Type:

The same information will be published in 2014, any new information will be published

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2013

Frequency:
Information about ford sections (shallow sections) are published every day.

Measures planned in the year 2014

Frequency:
Information about ford sections (shallow sections) will be published every day in 2014

WG 1 – Waterway infrastructure & management

Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

4) Information for waterway users

Measures taken in the year 2013

Media:
Summary reports about fords (shallow sections) daily processes and forwards by the Water management dispatching Bratislava (by e-mail or fax) for each branch of the State Navigation Administration and also of Slovak Water Management Enterprise, branch Bratislava. State Navigation Administration inform about these facts to skippers.
If the “Navigation measures” are issued, than as Notices to Skippers within the River Information Services.

Measures planned in the year 2014

Media:
It is expected that this system of informing about ford (shallow) sections will be used also in 2014
If the “Navigation measures” will be issued, it will be published as Notices to Skippers.

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Source: Slovak Water Management Enterprise

Effective waterway maintenance - Declaration / Questionnaire

5) Procedures for Exceptional Circumstances

Measures taken in the year 2013

Type of circumstances:

Ice, floods, navigation accidents and immediate threats of safe navigation

State:

Ongoing implementation of project CARES in corporation with HZ SR (Fire Force of the Slovak republic) and Austrian partner. Reaction activities are within national coordination controlled (managed) by Integrated Rescue System.

Measures planned in the year 2014

Implementation :

Nationally within the Integrated Rescue System and internationally within the project CARES

THANKS FOR YOUR ATTENTION

contact:

AGENTÚRA ROZVOJA VODNEJ DOPRAVY
Waterborne Transport Development Agency
P.O. BOX 9
Nám. slobody č.6
810 05 Bratislava
Slovak republic

mobil: 00421 917 957 270

phone: 00421 2 594 94 543

e-mail: vladimir.novak@arvd.gov.sk

web: www.arvd.gov.sk

