



This Project is funded  
by the European Union

# Supervision and Environmental Monitoring of River Training and Dredging Works on Critical Sectors on the Danube River

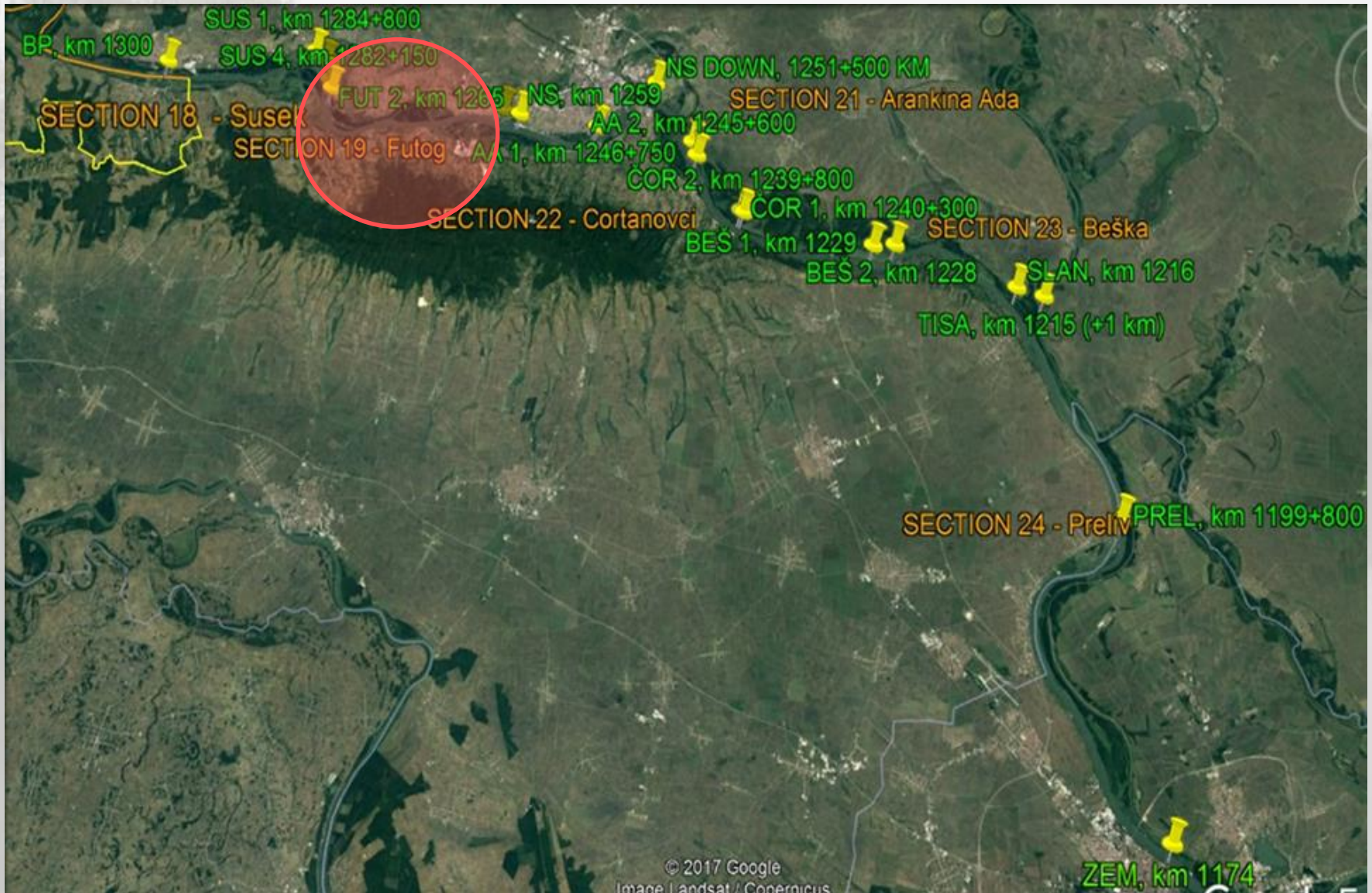
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STAKEHOLDERS' FORUM – 21<sup>st</sup> September 2018

**Republic of Serbia  
Ministry of Construction,  
Transport and Infrastructure**

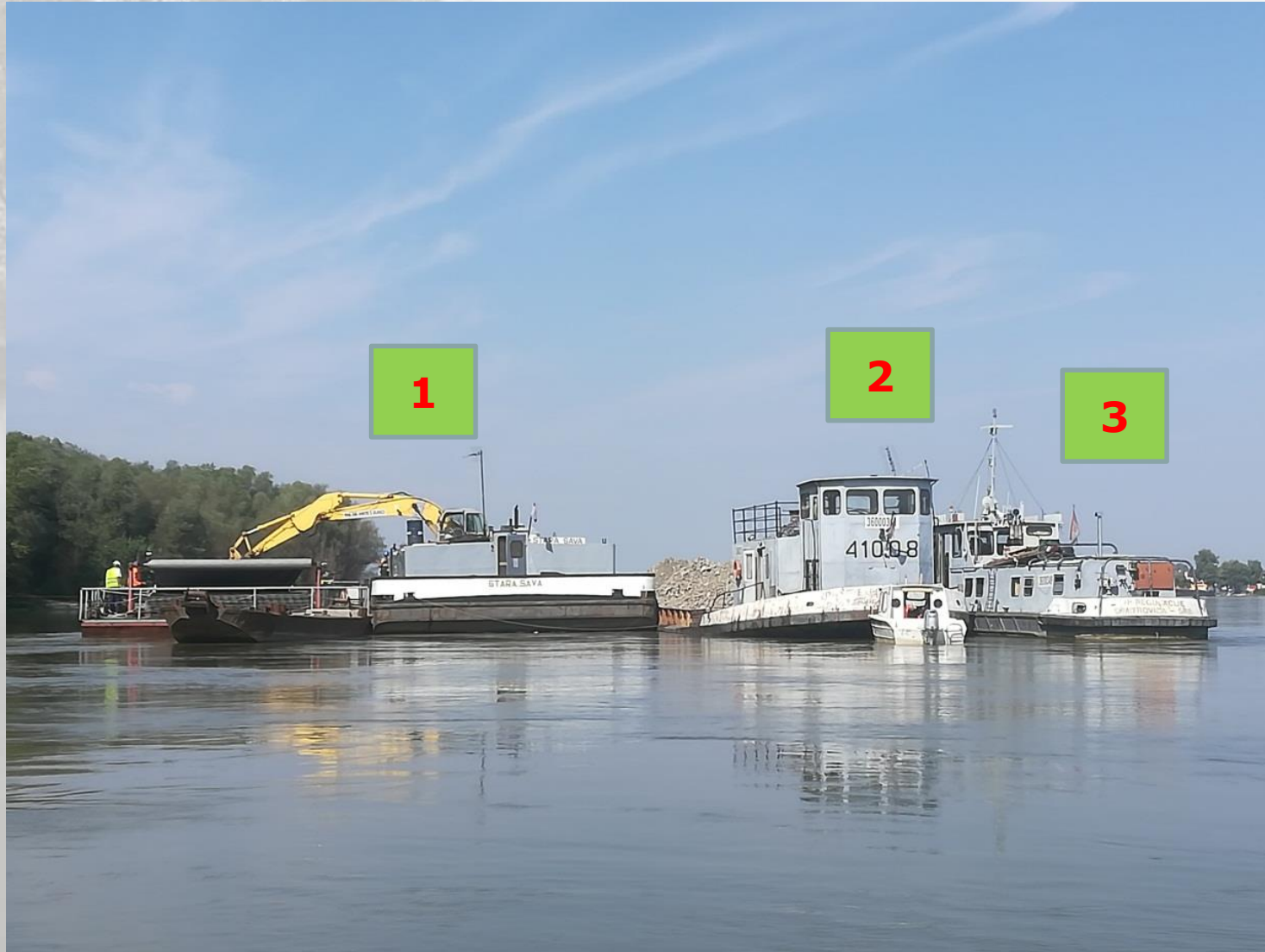


## FUTOG - Detached groyne and chevrone / dredging



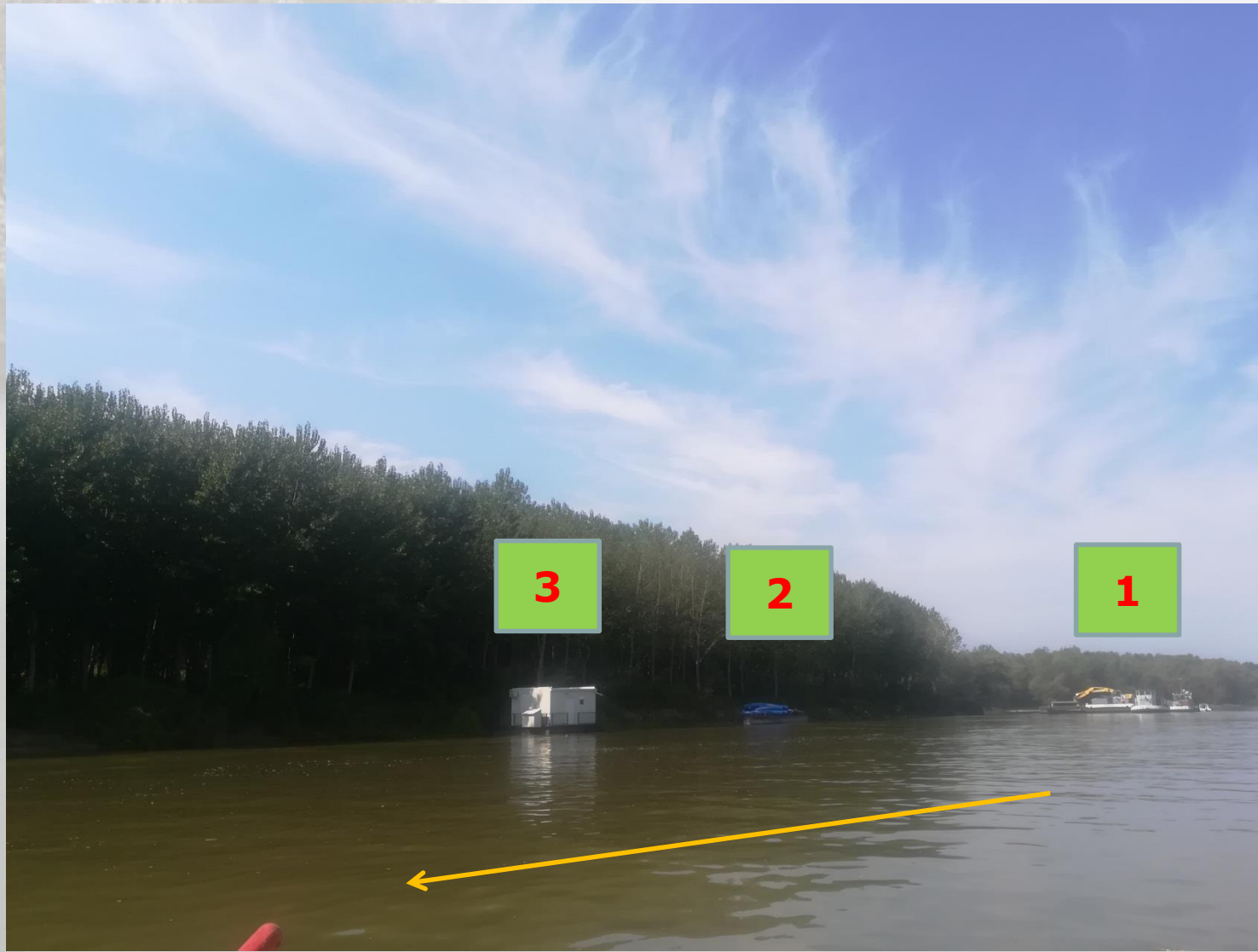


WORKS EXECUTION LOCATION AND SHIPS



1. Working ship with objects for geotextile setting
2. Barge with stone
3. Transfer ship

## FACILITIES POSITION ON THE SITE



1. Working ship with object for geotextile setting etc.
2. Barge with construction material
3. Floating office

← Danube direction

SOME FINDINGS ON THE SITE

- ❑ Ledinci settlement – barge loaded with stone – covered conveyor



Positive measure

but could be considered additional covering of the part for free fall of the stone

## SOME FINDINGS ON THE SITE

- ❑ Waste management – needs to be organized and performed in accordance with Serbian law regulation



Etc.



## SOME FINDINGS ON THE SITE

- ❑ Oil and oily water – needs to be regularly cleaned by appropriate adsorbent material



SOME FINDINGS ON THE SITE



“the only permitted method of refueling and refilling lubricants is by means of a pump”



## SOME FINDINGS ON THE SITE

- ❑ All leakage in mechanical drive to be drained into the unique tank and in average one time per year be get out by pump and properly treated by a licenced company
- ❑ Secondary tanks (tancvan) need to be repaired anyway



SOME FINDINGS ON THE SITE

- ❑ IF ALL PROPOSED MEASURES ARE NOT RESULTING, SETTING A TECHNICAL BARRIER FOR LOCALIZATION OF OIL STAIN WILL BE PROPOSED



**PROPOSED MEASURES MUST BE IMPLEMENTED URGENTLY**

- ☐ Adsorbent material for all critical points, as described within measures in accordance with the EMP;
- ☐ Bins/skips for domestic waste;
- ☐ Bins for other types of waste and definition of separated waste storage for them;
- ☐ Procedure for waste collecting, temporary storage and further handling by licensed operator;
- ☐ Labelling the waste containers and storage;
- ☐ Appropriate equipment for the sanitary water in office and the boats;
- ☐ Appropriate sedimentation tanks on all critical points on the boat;
- ☐ Usage of oil and fuel will be allowed only to trained persons, which will be nominated by the Contractor. All activities with fuel and oils will be at the dedicated areas.
- ☐ Establish a procedure for dealing with spills of release of these substances and ensure that relevant construction personnel are familiar with these emergency procedures (WE HIGHLY PROPOSE INSTALLATION OF DIFFERENT TYPES OF CURTAINS / DAMS USED FOR SURFACE RETENTION OF SPILLED LIQUIDS, INTER ALIA);





### PROPOSED MEASURES MUST BE IMPLEMENTED URGENTLY

- ☐ Lubricants will be stored in drums that are either sealed or have tightly fitting caps. All containers must be closed unless in use. Decanting of lubricants must be carried out in a specific area that has been previously identified and suitably protected;
- ☐ The floor of any storage or decanting area shall be impervious to lubricants and kept clean at all times. Lubricants shall be stored under cover in a no smoking area;
- ☐ All lubricant impregnated cotton waste and rags shall be promptly disposed of and handled as hazardous waste;
- ☐ The only permitted method of refueling and refilling lubricants is by means of a pump. In the purpose of smaller interventions for re-fueling it will be used small fuel delivery vehicle. It will be supplied with Spill-Kit equipment;
- ☐ No smoking shall be allowed inside the storage area and within 3 m of that area – that needs to be clearly written;
- ☐ Ensure that there is adequate fire-fighting equipment at the fuel stores;
- ☐ **etc. (in accordance with the EMP)**

**CLEANING OF WORKING AREA DONE  
(absorptive material used)**





**CLEANING OF MECHANICAL DRIVE DONE  
(absorptive material used as well)**





## WASTE MATERIAL STORED APPROPRIATELY





## TANK FOR TEMPORARY MANUAL REFUELING MOVED FROM UPPER PLATFORM





*Thank you for your attention*

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