



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

STAKEHOLDERS' FORUM, MEETING No.04 – 09th November 2018

Republic of Serbia
Ministry of Construction,
Transport and Infrastructure



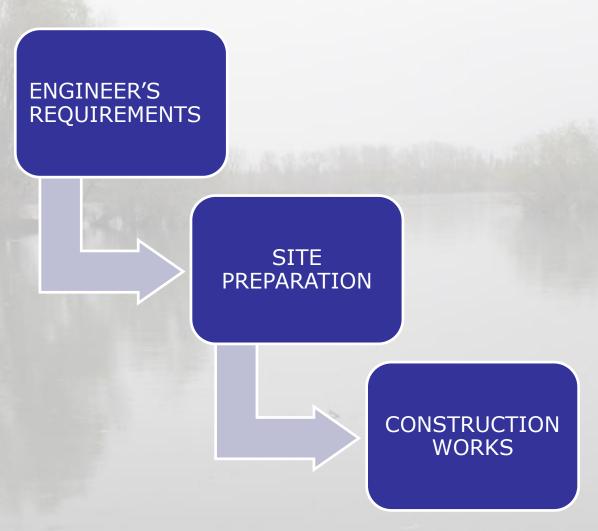


AGENDA

- Review of the previous activities(from the beginning to SHFM03)
- Review of the activities from SHFM03 to SHFM04
- ☐ Review of the expecting activities (from SHFM04 to next three months)



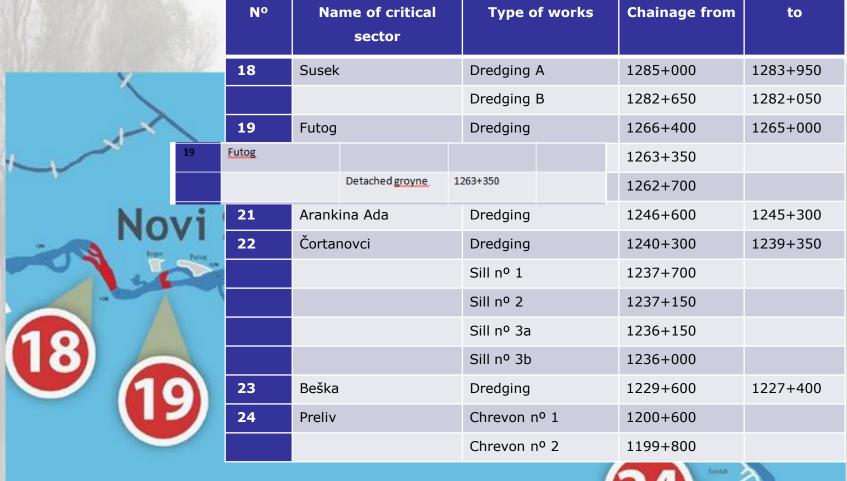
Project Implementation schedule





Scientika Militarica

Construction works





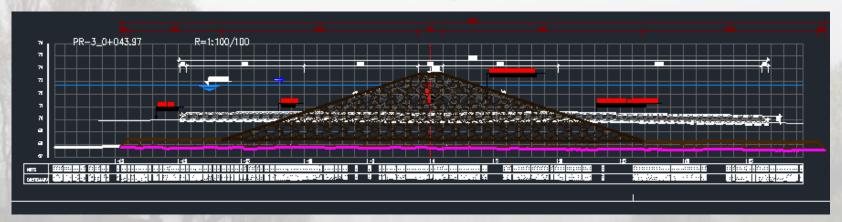
Project status

- Scope of the work (July October)
 - > start the construction of Groyne, Sector 19.1
 - additional quantity of works (for both Sectors) Var. 1
 - completion of geotextile layer
 - completion of the base layer (rock 6-15cm) process of controlling ongoing
 - > start the construction of Chevron, Sector 19.2
 - new set of equipment for the construction
 - "0" status of the river bed
 - process of geotextile layer- ongoing



Project status: Proposal for Variation No.1

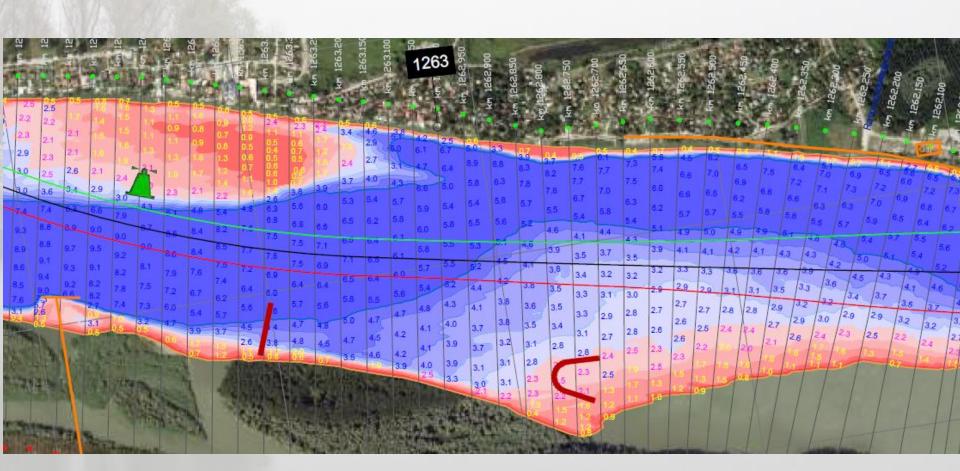
☐ Increased amount of works (Sector Futog, 19.1 and 19.2)







Project status: Groyne and Chevron position and morphology





Project status: Work Program

☐ Work Programme (approved in March 2018.)

46	Construction works	75 days	Mon 16.7.18	Fri 28.9.18	
47	Detached groyne (19.1)	58 days	Mon 16.7.18	Tue 11.9.18	
48	Placing geotextile	20 days	Mon 16.7.18	Sat 4.8.18	45;3
49	Construction of base layer	20 days	Mon 16.7.18	Sat 4.8.18	485
50	Profiling of base layer	2 days	Sun 5.8.18	Mon 6.8.18	49
51	Surveying of executed layers	2 days	Tue 7.8.18	Wed 8.8.18	50
52	Engineer's written permit for continuing of works	0 days	Wed 8.8.18	Wed 8.8.18	51
53	Construction of body	14 days	Thu 9.8.18	Wed 22.8.18	52
54	Profiling of body	11 days	Thu 23.8.18	Sun 2.9.18	53
55	Surveying of executed layers	2 days	Mon 3.9.18	Tue 4.9.18	54
56	Approval by the Engineer	7 days	Wed 5.9.18	Tue 11.9.18	55
57	Chevron (19.2)	55 days	Sun 5.8.18	Fri 28.9.18	
58	Placing geotextile	20 days	Sun 5.8.18	Fri 24.8.18	48
59	Construction of base layer	20 days	Sun 5.8.18	Fri 24.8.18	585
60	Profiling of base layer	4 days	Sat 25.8.18	Tue 28.8.18	59
61	Surveying of executed layers	2 days	Wed 29.8.18	Thu 30.8.18	60
62	Engineer's written permit for continuing of works	0 days	Thu 30.8.18	Thu 30.8.18	61
63	Construction of body	7 days	Fri 31.8.18	Thu 6.9.18	62
64	Profiling of body	13 days	Fri 7.9.18	Wed 19.9.18	63
65	Surveying of executed layers	2 days	Thu 20.9.18	Fri 21.9.18	64
66	Approval by the Engineer	7 days	Sat 22.9.18	Fri 28.9.18	65



Progress status: Work Programme

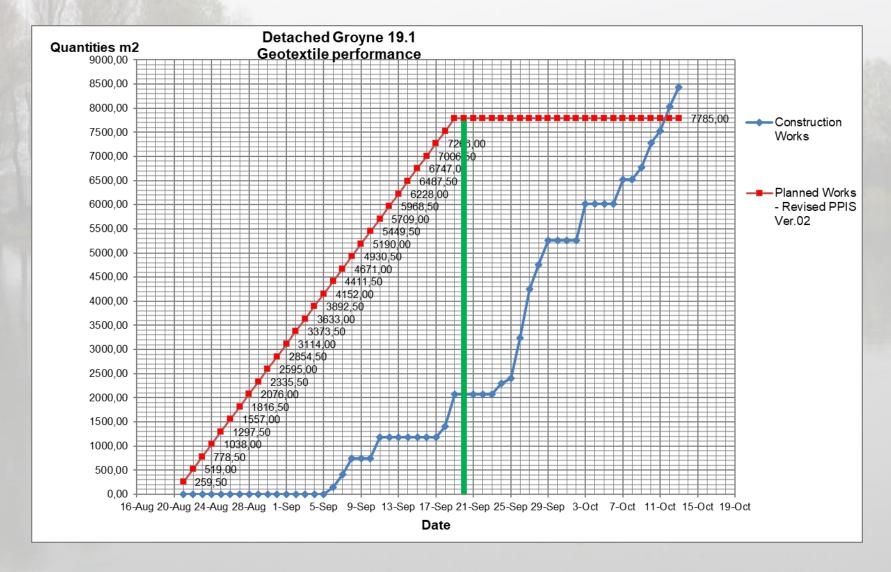
☐ Work Programme: WP 2 (Ver. September)

53	Preparation works	8 days	Wed 22.8.18	Wed 29.8.18
54	Construction works	115 days	Thu 30.8.18	Sun 23.12.18
55	Detached groyne (19.1)	84 days	Thu 30.8.18	Thu 22.11.18
56	Placing geotextile	27 days	Thu 30.8.18	Tue 25.9.18
57	Construction of base layer	27 days	Thu 30.8.18	Tue 25.9.18
58	Profiling of base layer	5 days	Wed 26.9.18	Sun 30.9.18
59	Surveying of executed layers	2 days	Mon 1.10.18	Tue 2.10.18
60	Engineer's written permit for continuing of works	0 days	Tue 2.10.18	Tue 2.10.18
61	Construction of body	30 days	Wed 3.10.18	Thu 1.11.18
62	Profiling of body	11 days	Fri 2.11.18	Tue 13.11.18
63	Surveying of executed layers	2 days	Wed 14.11.18	Thu 15.11.18
64	Approval by the Engineer	7 days	Fri 16.11.18	Thu 22.11.18
65	Chevron (19.2)	88 days	Wed 26.9.18	Sun 23.12.18
66	Placing geotextile	35 days	Wed 26.9.18	Tue 30.10.18
67	Construction of base layer	35 days	Wed 26.9.18	Tue 30.10.18
68	Profiling of base layer	6 days	Wed 31.10.18	Mon 5.11.18
69	Surveying of executed layers	2 days	Tue 6.11.18	Wed 7.11.18
70	Engineer's written permit for continuing of works	0 days	Wed 7.11.18	Wed 7.11.18
71	Construction of body	23 days	Thu 8.11.18	Sat 1.12.18
72	Profiling of body	13 days	Sun 2.12.18	Fri 14.12.18
73	Surveying of executed layers	2 days	Sat 15.12.18	Sun 16.12.18
74	Approval by the Engineer	7 days	Mon 17.12.18	Sun 23.12.18



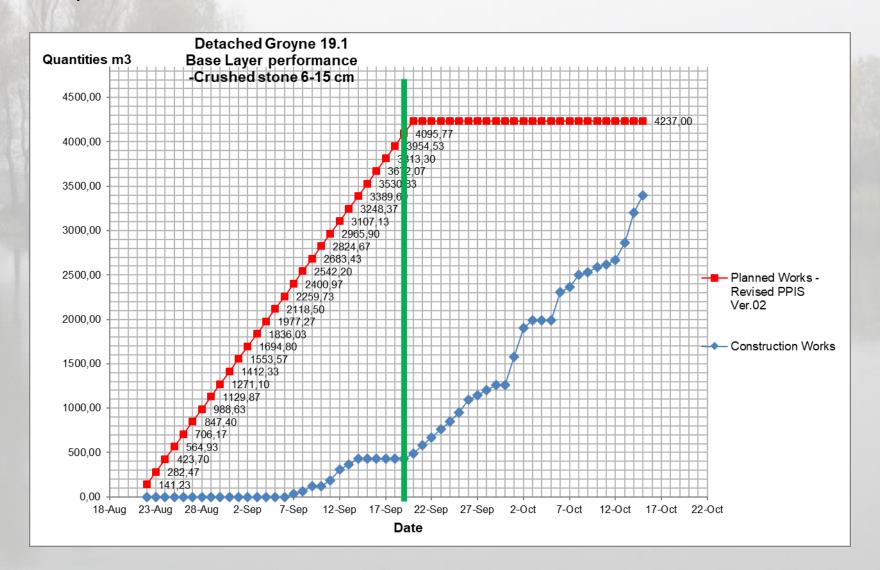
acciona Progress status: Delay of groyne construction

Groyne, geotextile





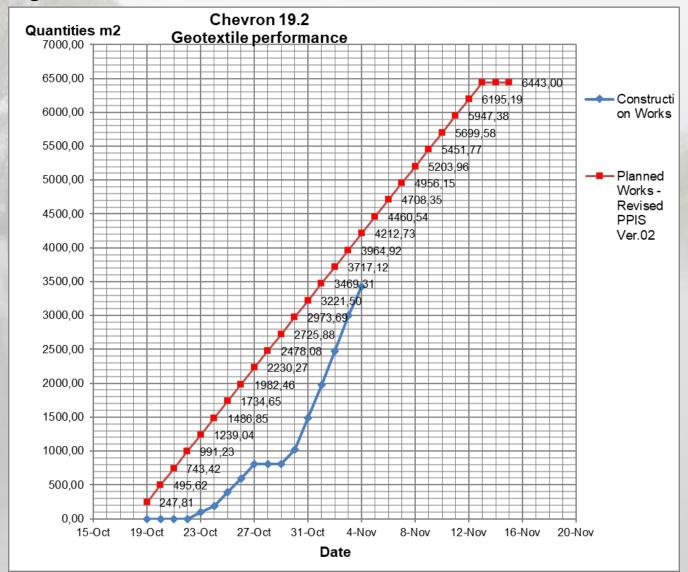
☐ Groyne, rock



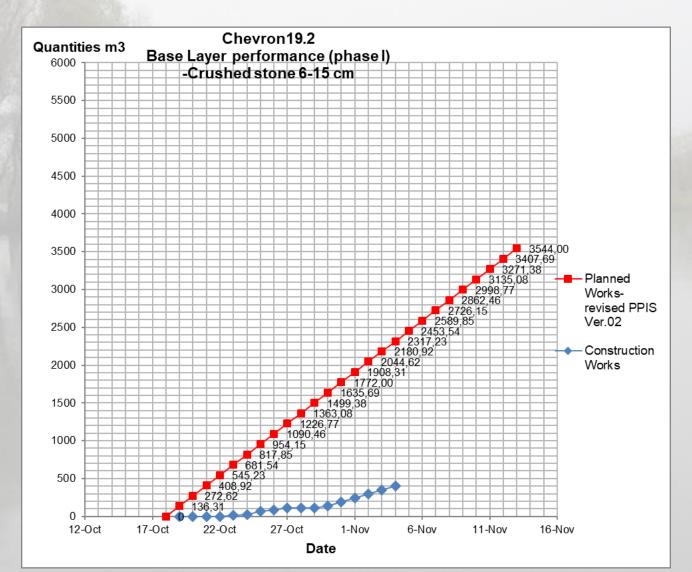


acciona Progress status: Geotextile

Chevron, geotextil



☐ Chevron, rock





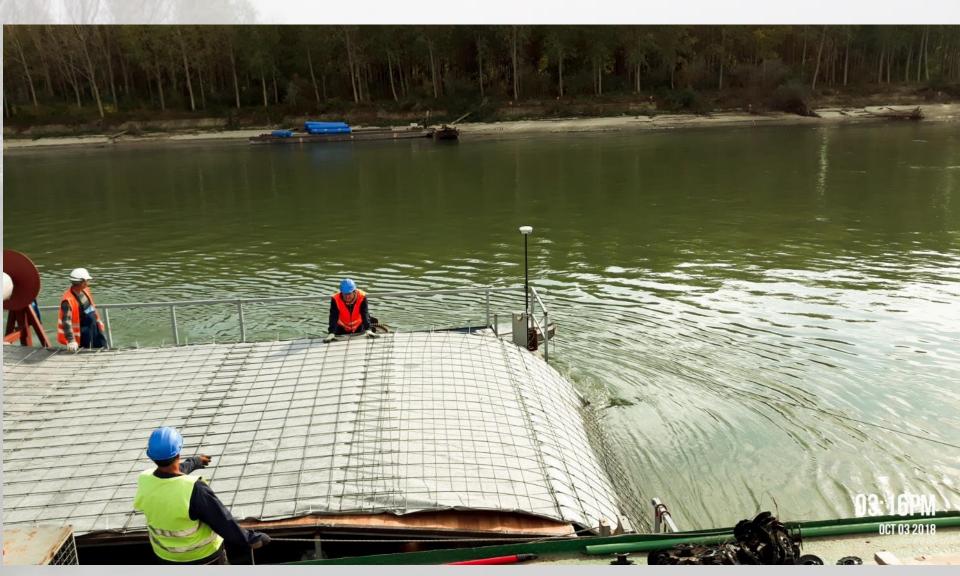
☐ Construction for geotextile installation





Works status

☐ Geotextile installation





☐ Rock base layer (6-15cm) above the geotextile





Achievements since the last meeting

☐ S&EM

- ✓ 3° Stakeholders' Forum (21-09-2018)
 - Supervison of the works
 - Morphology control of the river bed Chevron
 - Water and Sediment control
 - Biology control
- ✓ Interim Report nº 2 submitted and approved

■ WKSC

- ✓ Commencement of work was:
 - 21.08.2018. Sector 19.1, Groyne ongoing
 - 21.10.2018. Sector 19.2, Chevron ongoing
- ✓ IPC 1 submitted on 19.10.2018. value 960.000€
- ✓ IPC 2 in progress



Progress status: Work Program Ver.3

☐ WP 3 (Ver. October) (approved October 2018.)

Preparation works	8 days	Wed 22.8.18	Wed 29.8.18	52
Detached groyne (19.1)	136 days	Thu 30.8.18	Wed 16.1.19	
Placing geotextile	45 days	Thu 30.8.18	Sat 13.10.18	52;3
Construction of base layer	56 days	Thu 30.8.18	Wed 24.10.18	
Profiling of base layer	5 days	Thu 25.10.18	Mon 29.10.18	56
Surveying of executed layers	2 days	Tue 30.10.18	Wed 31.10.18	57
Engineer's written permit for continuing of works	14 days	Thu 1.11.18	Thu 15.11.18	58
Construction of body	32 days	Fri 16.11.18	Mon 17.12.18	59
Profiling of body	11 days	Tue 18.12.18	Fri 28.12.18	60
Surveying of executed layers	2 days	Sat 29.12.18	Sun 30.12.18	61
Approval by the Engineer	14 days	Mon 31.12.18	Wed 16.1.19	62
"Zero status" survey for chevron	9 days	Wed 26.9.18	Fri 5.10.18	
Survey	3 days	Wed 26.9.18	Sat 29.9.18	66SF
Geodetic data processing	4 days	Sat 29.9.18	Wed 3.10.18	67SF
Preparation of drawings	1 day	Wed 3.10.18	Thu 4.10.18	68SF
Quantities calculation	1 day	Thu 4.10.18	Fri 5.10.18	69SF
Approval by the Engineer	14 days	Fri 5.10.18	Fri 19.10.18	70FF
Engineer's written permit for starting of works	0 days	Fri 19.10.18	Fri 19.10.18	72SF
Chevron (19.2)	115 days	Fri 19.10.18	Thu 14.2.19	
Placing geotextile	26 days	Fri 19.10.18	Wed 14.11.18	55FS+5 days
Construction of base layer (I phase)	26 days	Fri 19.10.18	Wed 14.11.18	72SS
Construction of base layer (II phase)	14 days	Thu 15.11.18	Wed 28.11.18	73
Profiling of base layer	7 days	Thu 29.11.18	Wed 5.12.18	74
Surveying of executed layers	2 days	Thu 6.12.18	Fri 7.12.18	75
Engineer's written permit for continuing of works	14 days	Sat 8.12.18	Fri 21.12.18	76
Construction of body	27 days	Tue 18.12.18	Wed 16.1.19	60



Progress status: Work Program Ver.3

☐ WP 3 (Ver. October) (approved October 2018.)

Structures on Sector 22	107 days	Thu 1.11.18	Thu 21.2.19	
Preliminary works	107 days	Thu 1.11.18	Thu 21.2.19	
Handover of bathymetric survey plan	0 days	Thu 1.11.18	Thu 1.11.18	92SF-2 days
"Zero status" survey for Sill (22.1)	20 days	Sat 3.11.18	Sat 24.11.18	
Placing of benchmarks	2 days	Sat 3.11.18	Mon 5.11.18	93SF
Survey	6 days	Mon 5.11.18	Mon 12.11.18	94SF
Geodetic data processing	8 days	Mon 12.11.18	Tue 20.11.18	95SF
Preparation of drawings	2 days	Tue 20.11.18	Thu 22.11.18	96SF
Quantities calculation	2 days	Thu 22.11.18	Sat 24.11.18	97SF
Approval by the Engineer	14 days	Sat 24.11.18	Sat 8.12.18	98FF
Engineer's written permit for starting of works	0 days	Sat 8.12.18	Sat 8.12.18	100SF
Sill (22.1)	59 days	Sat 8.12.18	Thu 7.2.19	



Progress status: Other activites

- Engineer Requirements
- ✓ IPA "spot check" by ER and FB (No.1 and No.2)
- ✓ "spot check" by CFCU (No.1)
- ✓ IPC 1 completed (construction book approved by Engineer)
- ✓ MAC for the Rock Material covered 10.000 t of the rocks (rock 6-15cm)
- ✓ MAC for Rock Material covered 2.000 t of the rocks (rocks 15 – 45 cm)
- ✓ IPC 2 for work execution is in progress



Future – expecting activities for the next three Months

- Completion of the 19.1 Groyne
- Use Permit (Technical Revision) activity by CA (10.1 PC)
- Taking Over
- Commencement of DNP on the 19.1
- Completion of the 19.2 Chevron
- Preparation Use Permit (Technical Revision)- activity by CA
- Taking Over
- Commencement of DNP on the 19.2
- Construction phase of the structure Sills (Čortanovci, Sector 22)
- + Preparation for Use Permit and TOC



Future – expecting activities for the next three Months

- Survey of the river bed Futog (all the Sector) following morphology aspect (riverbed changings)
- Commencement of the Chevron structure (Preliv, Sector 24), including a survey

Preparation for the Final decision about

- <u>time extension/dredging activities and</u> <u>cost of the project</u>

Thank you for your attention

