



Legend

- WL gauges
- Affected buildings
- Rivers
- Flood Zone extent (AFP)

0 0.5 1 1.5 2 km
 Map projection-HTRS96 TM
 Date: July 2020.

N
 DATA SOURCE:
 Hrvatske vode
 Državna geodetska uprava
 Other Institutions



Contractor:
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FEM PARAMETERS – RIVER SAVA

AFPO3

100-year return period
HYDROLOGICAL PARAMETERS

• Design flows $Q_{100} = 3134 [m^3/s]$
 $Q_{bankfull} = 2108 [m^3/s]$

• Peak reduction

$\Delta Q [m^3/s]$	$\Delta Q_{rel} [%]$	FEM Class
5.24	0.51	1

• Flood wave translation

$\Delta t [h]$	FEM Class
2.0	3

HYDRAULIC PARAMETERS

• Water level

$\Delta h [m]$	FEM Class
0.16	3

• Flow velocity

$\Delta v [m/s]$	FEM Class
-0.01	1

• Shear stress

$\Delta \tau [N/m^2]$	FEM Class
-0.10	1

ECOLOGICAL PARAMETERS

• Connectivity of floodplain water bodies

Historic Water Bodies	FEM Class
4 - FP Exist, Disconnected $Q=2219m^3/s > Q_{bankfull}$	1

• Existence of protected species and habitats

Protected species	FEM Class
85 species	5

Protected habitats	FEM Class
100% habitats	5

• Ecological water status

Status	No	FEM Class
Status 1 - Very poor	0	5
Status 2 - Poor	0	
Status 3 - Moderate	1	
Status 4 - Good	0	
Status 5 - Very Good	S	

Note:
 S = Sava
 (main watercourse)

HYDRAULIC PARAMETERS

• Land use

Value	FEM Class
4.83	5

• Potentially affected buildings

No houses / km ²	FEM Class
0.45	5

Need for preservation: YES

RESTORATION PRIORITY Medium