



FEM PARAMETERS – DUNAV

FP34

100-year return period
HYDROLOGICAL PARAMETERS

• Design flows $Q_{100} = 9422.0 [m^3/s]$
 $Q_{bankfull} = 5442.1 [m^3/s]$

• Peak reduction

$\Delta Q [m^3/s]$	$\Delta Q_{rel} [%]$	FEM Class
1139.1	29.84	5

• Flood wave translation

$\Delta t [h]$	FEM Class
0.18	1

HYDRAULIC PARAMETERS

• Water level

$\Delta h [m]$	FEM Class
0.48	3

ECOLOGICAL PARAMETERS

• Connectivity of floodplain water bodies

Historic Water Bodies	FEM Class
2 - FP Exist, Connected $Q_{connected} > Q_{bankfull}$	3

• Existence of protected species and habitats

Protected species	FEM Class
41 species	5

Protected habitats	FEM Class
61% habitats	3

• Ecological water status

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

Note: D = Danube (main watercourse)

HYDRAULIC PARAMETERS

• Land use

Value	FEM Class
4.77	5

• Potentially affected buildings

No houses / km ²	FEM Class
1.20	3

Need for preservation: YES

RESTORATION PRIORITY High

Legend

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

0 1 2 3 4 km

Map projection-HTRS96 TM

Date: July 2020.

DATA SOURCE:
 Hrvatske vode
 Državna geodetska uprava
 Other Institutions

KU217

Contractor:
 Computer Classroom KU217 Limited,
 Ground Floor 8-9, Marino Mart Fairview Clontarf Dublin 3,
 D03 P590 Dublin, Irska