SLOVENSKÝ
VODOHOSPODARSKY
PODNIK, š.p.

Activities planned for the year 2026 to ensure fairway conditions

Ing. Marek Považan - OZ Povodie Dunaja , Bratislava

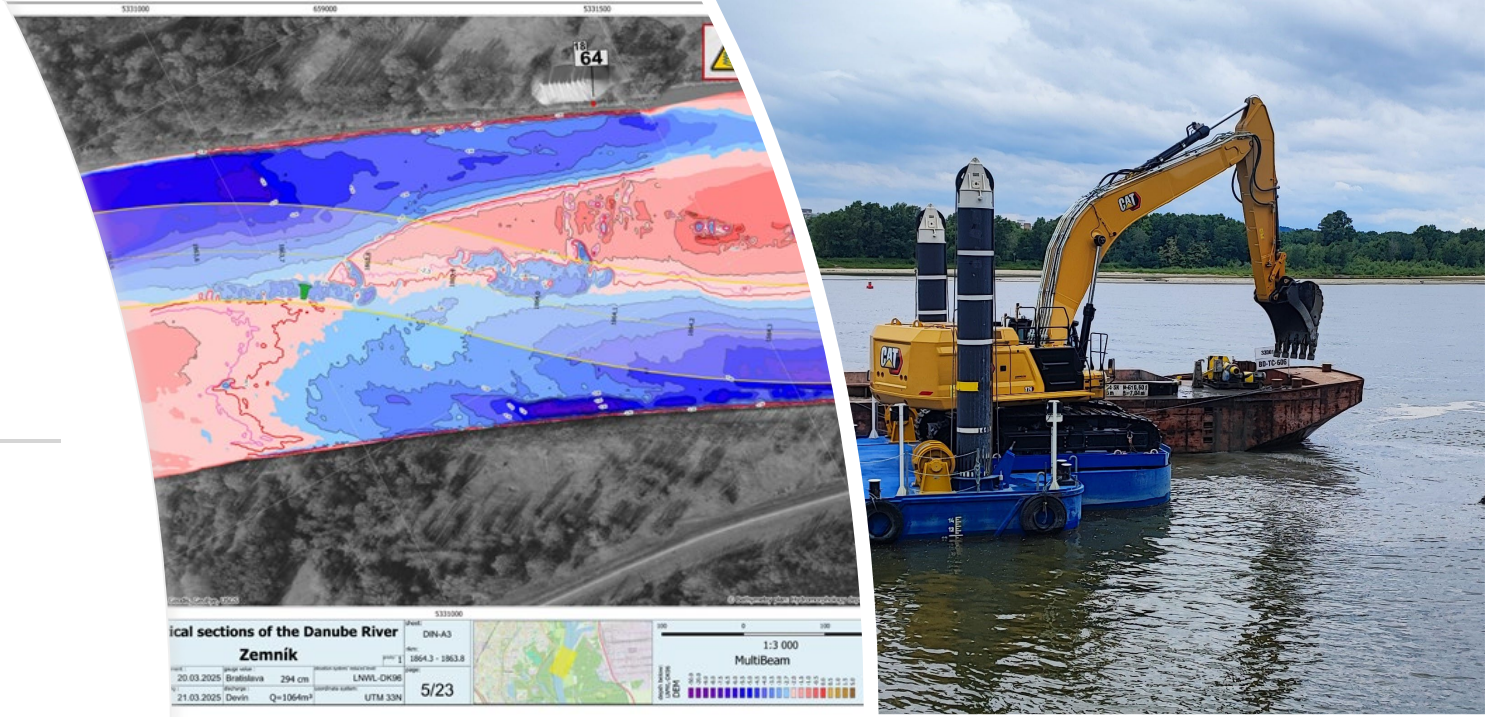
SVP, š. p., Povodie Dunaja, o.z., PS Dunaj + PS Gabčíkovo

Dredging statistics - Year 2025

Nr.	watercourse/water structure	rkm	amount of bottom sediments [m3]	properties of bottom sediments	method of treatment and management of bottom sediments
1.	Danube/Hrušov Reservoir	32 - 31	14 586	clay - clay sand	unloading at km 31 to island no. 18
2.	Danube/discharge channel VDG	7,5	4 767	clayey sediment	unloading at km 31 to island no. 18
3.	Danube/ Devin Quarry basin	1877,4 - 1876,9	13 097	clay sand - gravel	unloading at km 31 as a base layer for island no. 18 (5,054 m3) and behind Muchova dam at km 36 - 35 (8,043 m3)
4.	Danube/Mineral Oil basin	1865,0 -1864,8	7 742	clayey sediment	unloading at km 31 to island no. 18
5	Danube/ Palenisko Basin	1865,5-1865,4	8 937	clay sand - gravel	unloading at km 31 as a base layer for island no. 18
6	Danube	1864	32 613	gravel and sand	unloading at km 31 as a base layer for island no. 18 (7,744 m3) and to the landfill in Pod. Biskupice rkm 1862 ĽB (24,869 m3)
7	Danube	1793,7 - 1793,3	40 715	gravel and sand	unloading to the landfill in Klížská Nemá at km 1793 ĽB (40,715 m3)
8	Danube	1792,3 - 1791,5	20 422	gravel and sand	unloading to the landfill in Klížská Nemá at km 1793 ĽB (4,305 m3), the landfill in Veľké Kosihy at km 1788 ĽB (2,884 m3) and the landfill in Veľké Kosihy at km 1787 ĽB (13,233 m3)
9	Danube	1788,9 - 1788,3	3 626	gravel and sand	unloading to the landfill in Veľké Kosihy at km 1788 ĽB (994 m3) and the landfill in Veľké Kosihy at km 1787 ĽB (2,632 m3)
total			**146 505**		

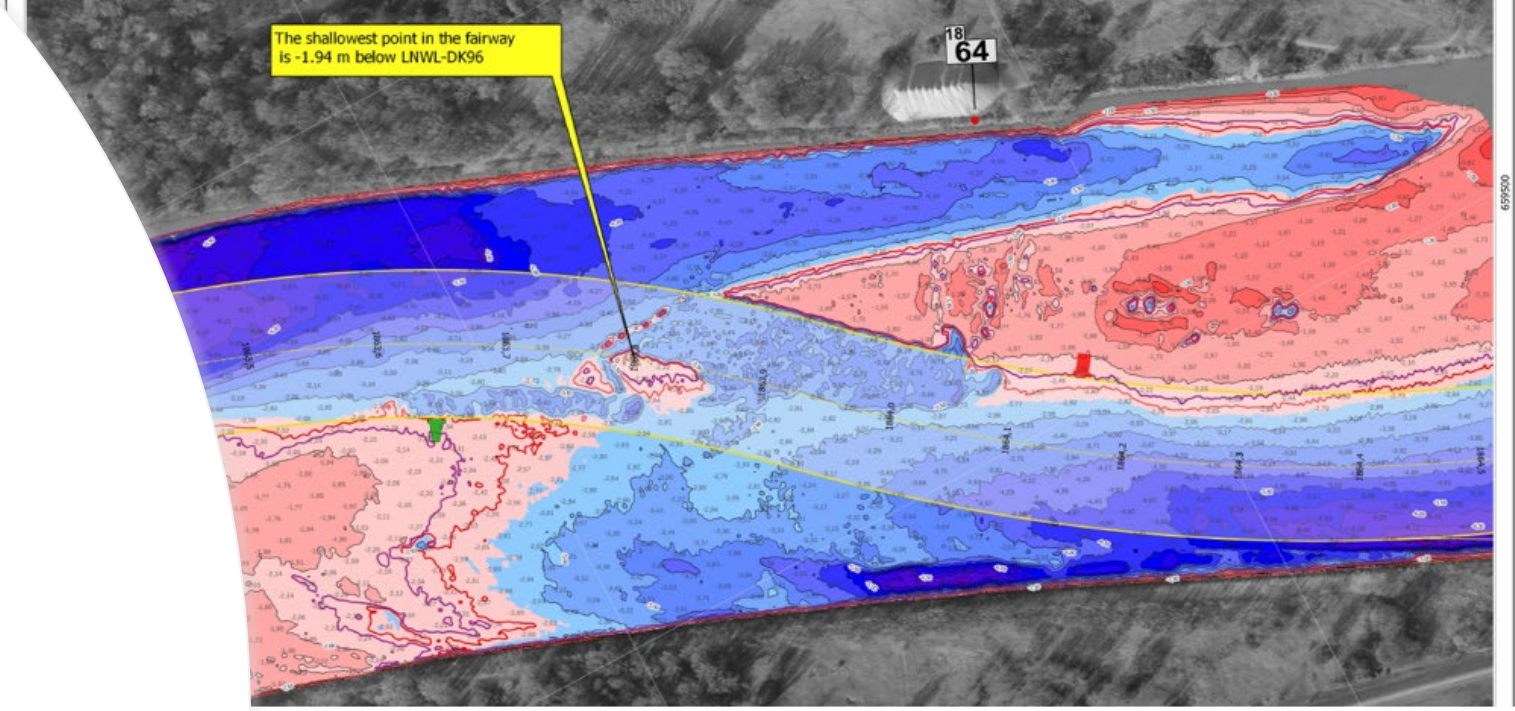
The Shallow section at rkm 1864 (Vlčie hrdlo)

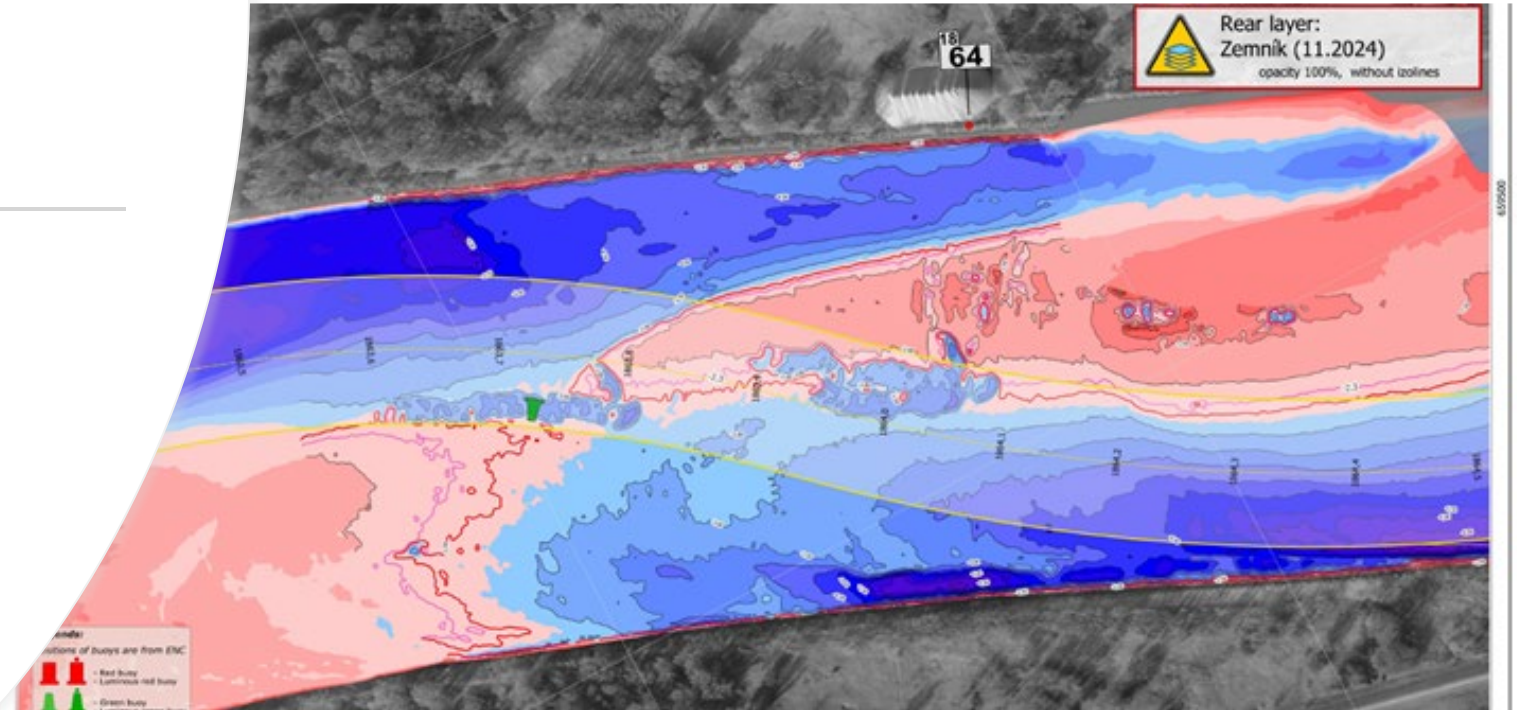
- Approximately 30,000 to100,000 m3 of sediment is removed from the fairway annually.
- SVP š.p. annually deploys at least one dredging system to maintain this section and remove the ford



Shallow section at rkm 1864

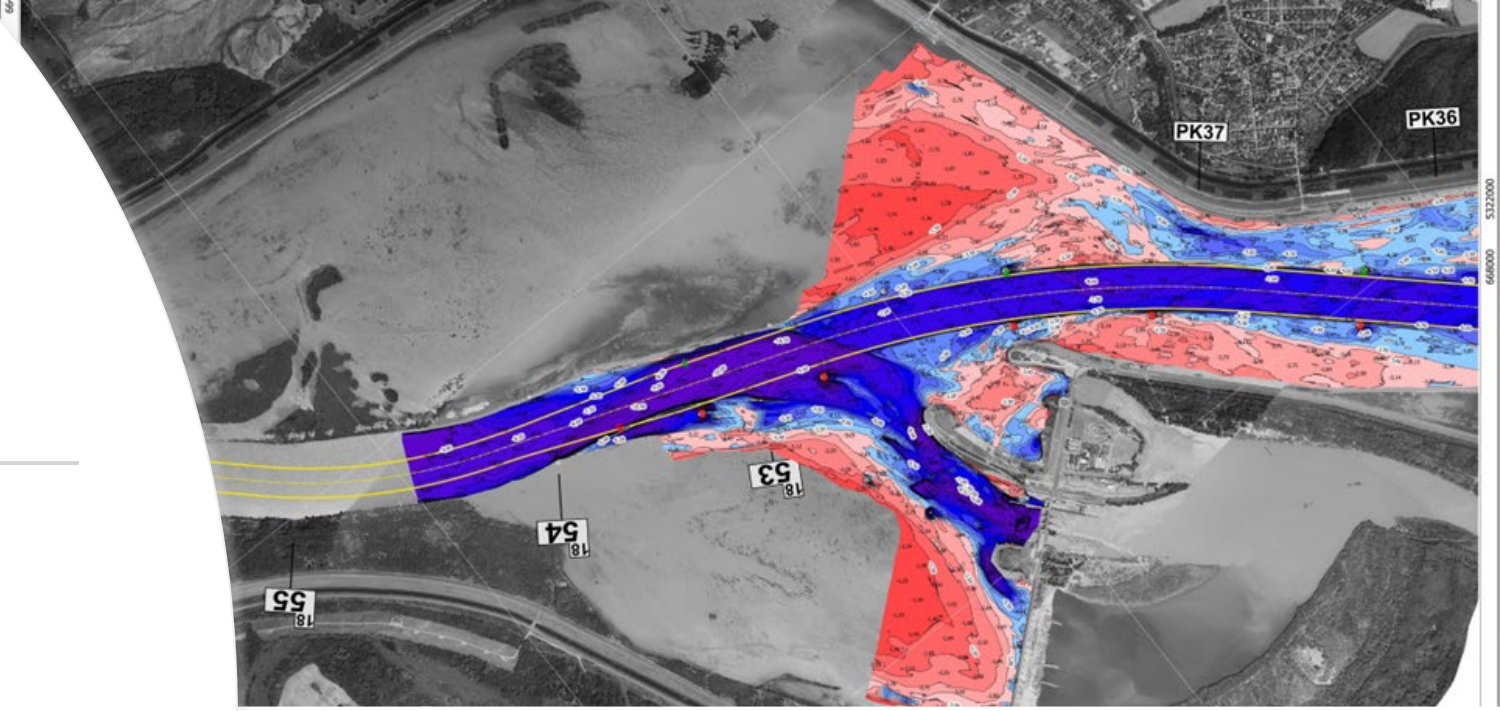
Status after 3 months of dredging operations

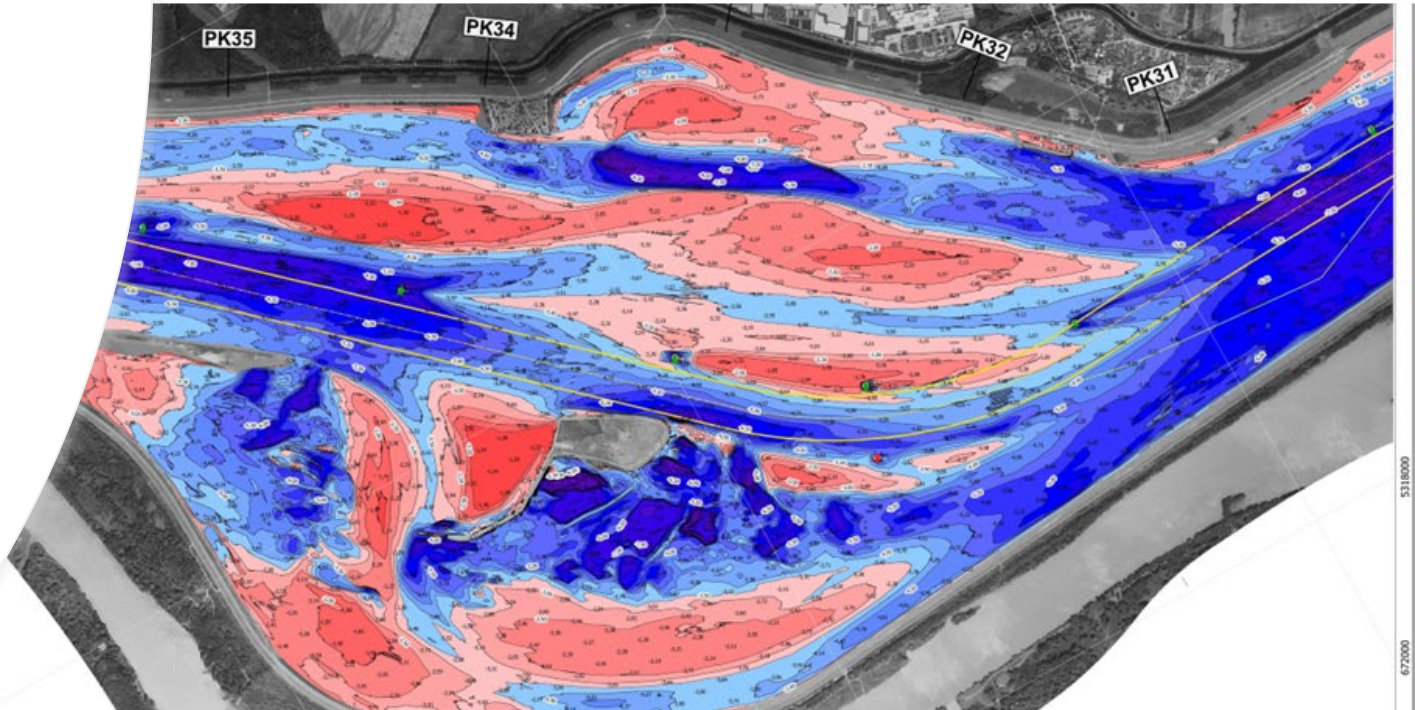




Hrušov Reservoir

- From regular monitoring of the morphology of the Danube river bed in the Hrušov reservoir section, it is clear that the annual increase of sediment in the reservoir is approximately 300,000 to 500,000 m3
- In the event of floods close to Q100, the increase of sediments in the reservoir is approximately 1.5 to 1.9 million m3.

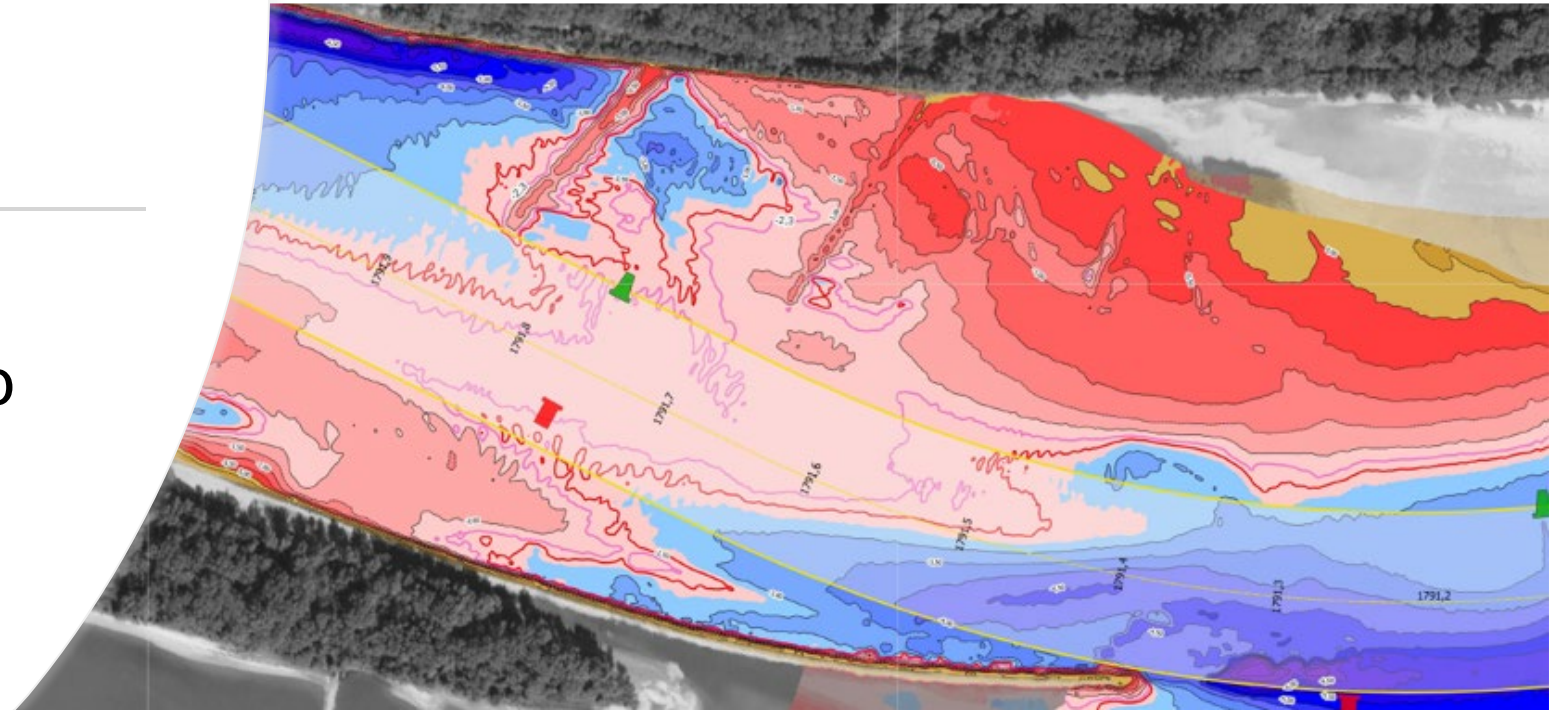




- **Suction mechanism with dehydration station**

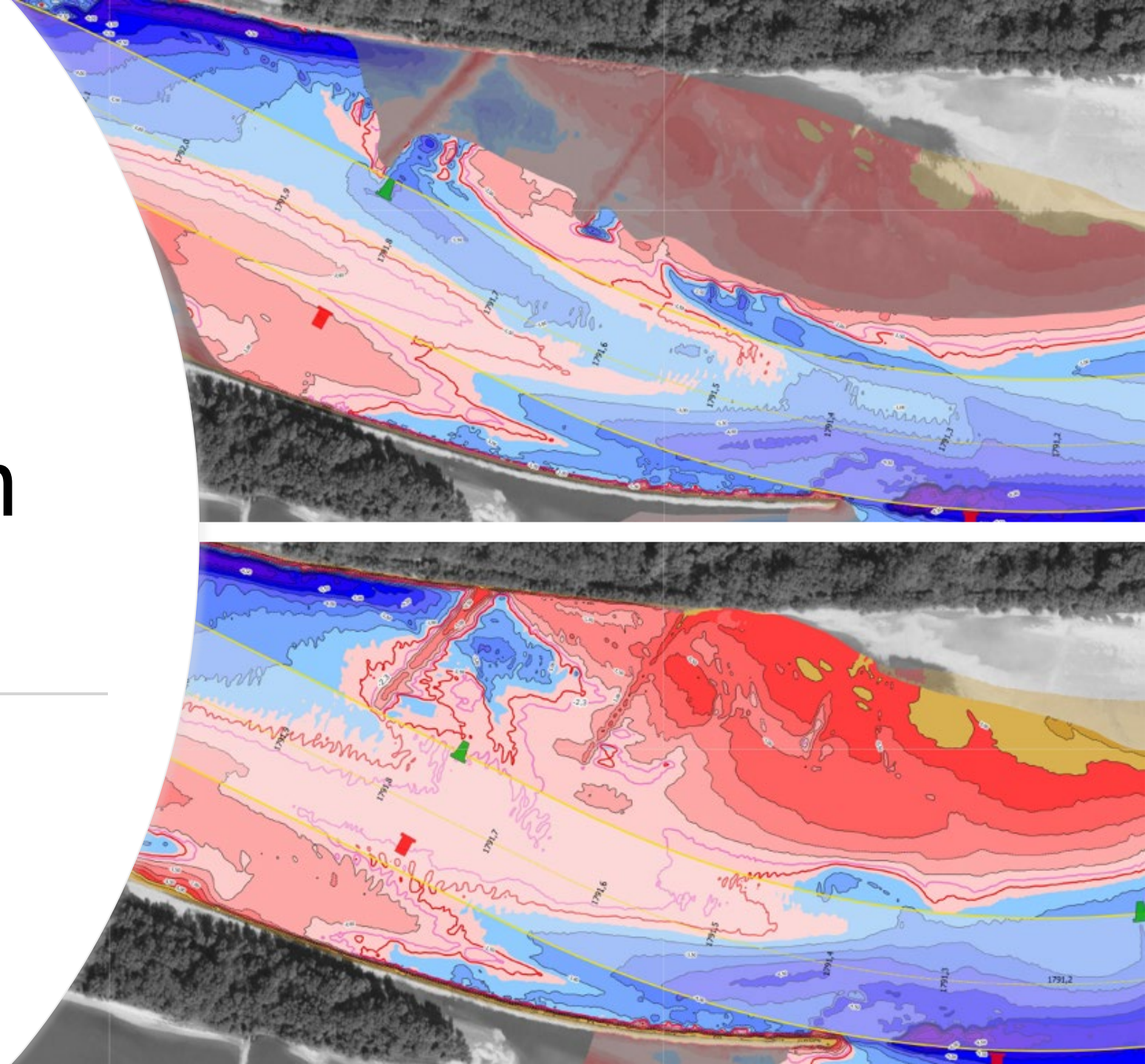
Shallow section at rkm 1791.7 (Veľké Kosihy)

SVP š.p. annually deploys at least one dredging system to maintain this section



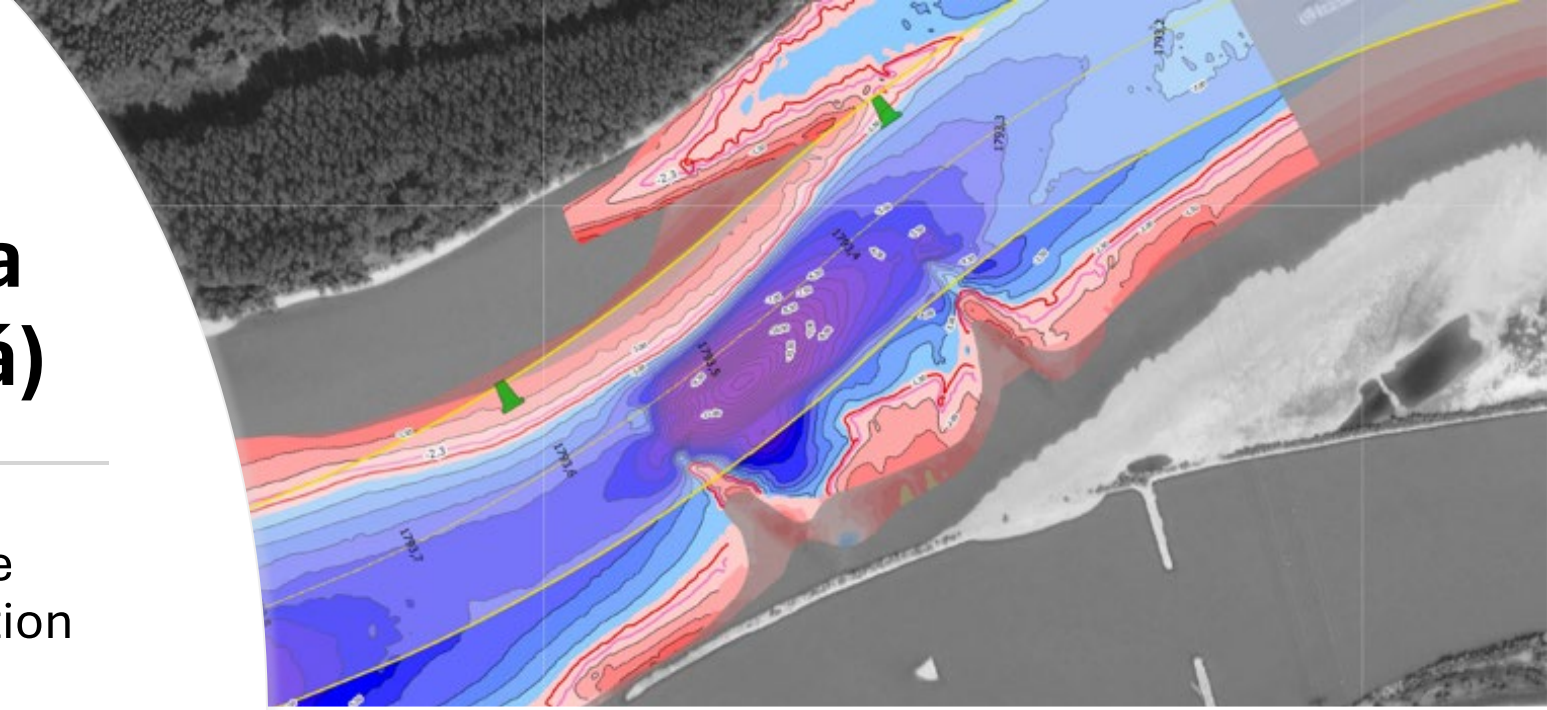
Shallow section at rkm 1791.7

Status after 7 months of dredging operations



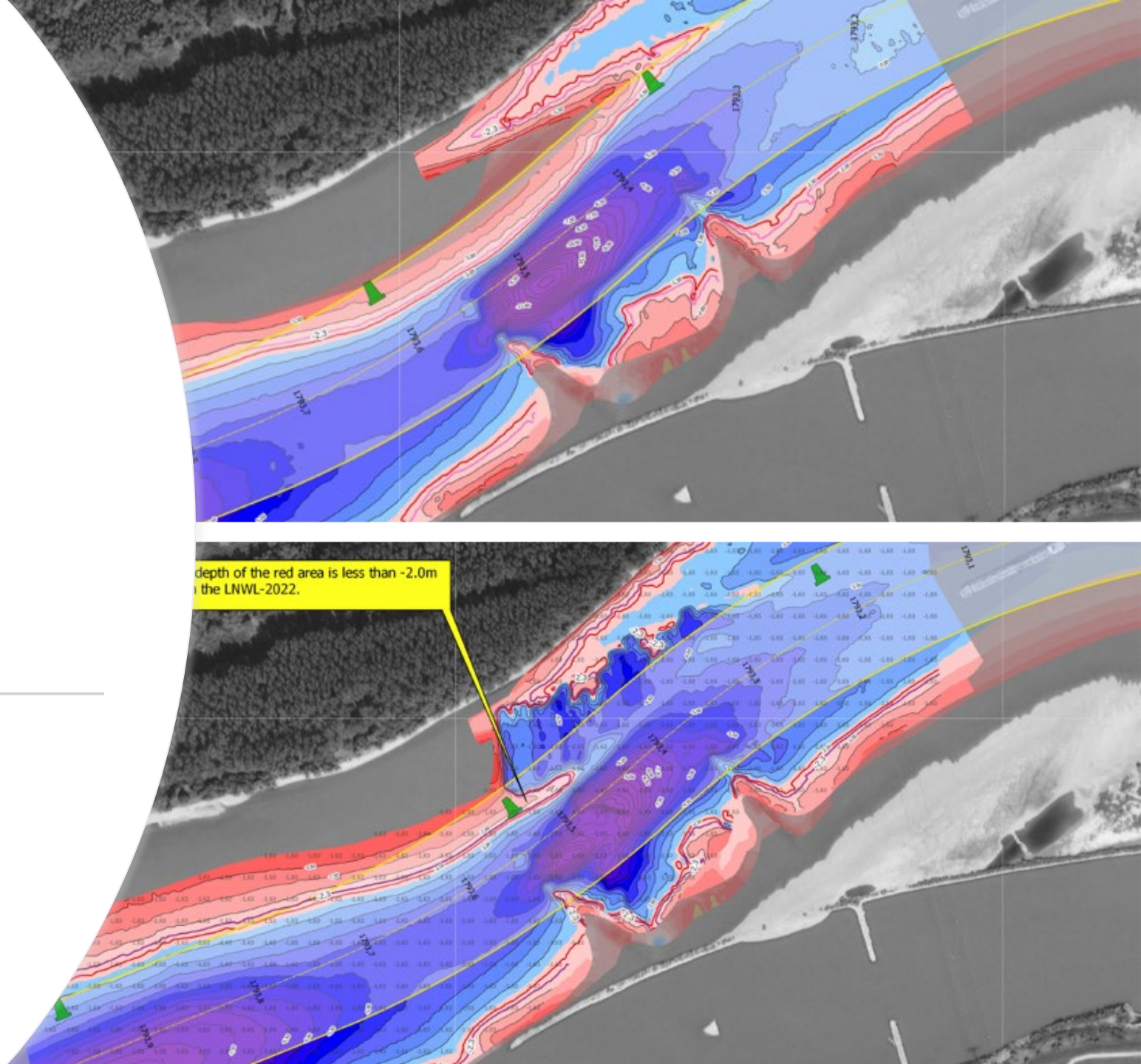
Gravel bench in the area of 1793.2(Kližská Nemá)

- SVP š.p. annually deploys at least one dredging system to maintain this section and remove the ford



Gravel bench at rkm 1793.2

Status after 3 months of dredging operations



Example of the mechanisms used for the maintenance of the Danube River

- Backhoe dredgers:
- BD Kunov
- BD Vyza
- BD Jeseter
- BD Mrena

Parameters:

- **Excavator arm - digitally tracked by**
- **GPS**
- **Excavator excavation depth 11 m**
- **Bucket volume min. 3 m3**
- **Arm reach 14 m**
- **Dredging capacity 300 m3/h**

Fairway marking

- Marking of the entire section of the waterway on the national section of the Danube twice a week
- Marking of the SK – HU section of the waterway of the Danube twice a week
- Marking of the AT- SK section of the waterway - twice a week

Operational costs for activities in 2025 and the budget for the year 2026

	Costs 2025	Planned budget 2026	Secured budget 2026
Minimum fairway parameters- maintanance dredging (AT-SK, National, SK-HU)	2 829 669 €	1 760 000 €	1 760 000 €
Marking of the fairway (Danube, VDG Gabcikovo)	721 105 €	750 000 €	750 000 €
Ports maintanance	231 541 €	0 €	0 €
Projects/ Others	0 €	1 605 000 €	1 605 000 €
Total	**3 782 315 €**	**4 115 000 €**	**4 115 000 €**

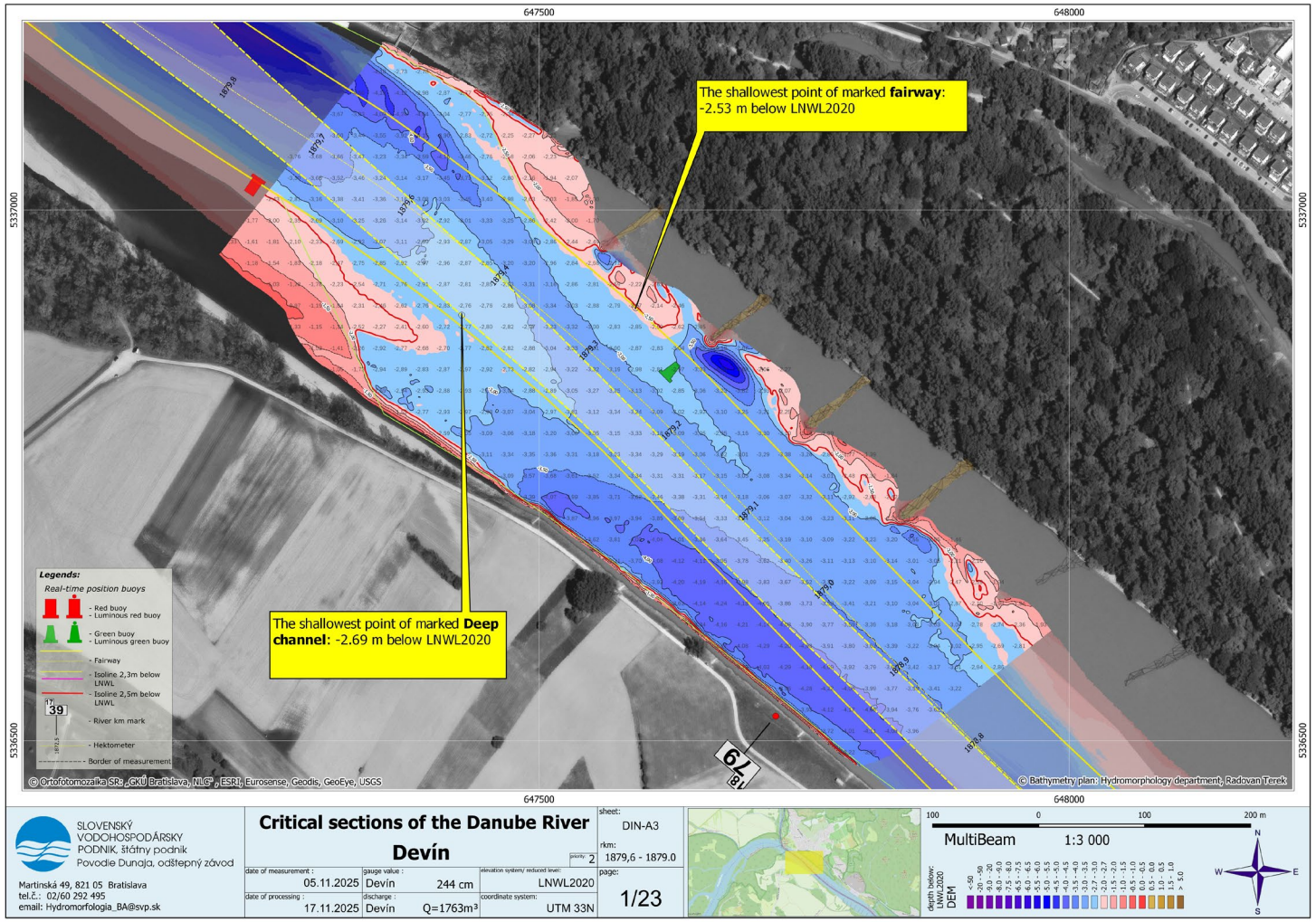
Activities planned for the year 2026

Nr.	watercourse/water structure	rkm	amount of bottom sediments [m3]	properties of bottom sediments	method of treatment and management of bottom sediments
1.	Danube/ Devin Quarry basin	1877,4 - 1876,9		quarry stone	unloading at km 31 as a base layer for island no. 18 (Project DaReM)
2.	Danube	1864	20 000	gravel and sand	unloading at km 31 to island no. 18 (Project DaReM)
3.	Danube/Hrušov Reservoir/Fairway	32 - 31	15 000	clay - clay sand	unloading at km 31 to island no. 18 (Project DaReM)
4.	Danube/Čunovo Power Plant	1853	20 000	clay-clay sand	suction of sediments, unloading at the bank, dehydration and installment to island no. 18 (Project DaReM)
5.	Danube	1789	7 000	gravel and sand	unloading to the landfill Zlatná na Ostrove
6.	Danube	1791	40 000	gravel and sand	unloading to the landfill Veľké Kosihy
7.	Danube	1792,5	40 000	gravel and sand	unloading to the landfill Veľké Kosihy
total			**142 000**		

Project DaReM – Island No. 18

List of critical sections of the Danube River rkm 1880-1711 marked as priority 1

Last measurments


647500
648000
5337000
5336500
The shallowest point of marked **fairway**: -2.53 m below LNWL2020
The shallowest point of marked **Deep channel**: -2.69 m below LNWL2020
Legends:
Real-time position buoys
- Red buoy
- Luminous red buoy
- Green buoy
- Luminous green buoy
- Fairway
- Isoline 2,3m below LNWL
- Isoline 2,5m below LNWL
- River km mark
- Hektometer
- Border of measurement
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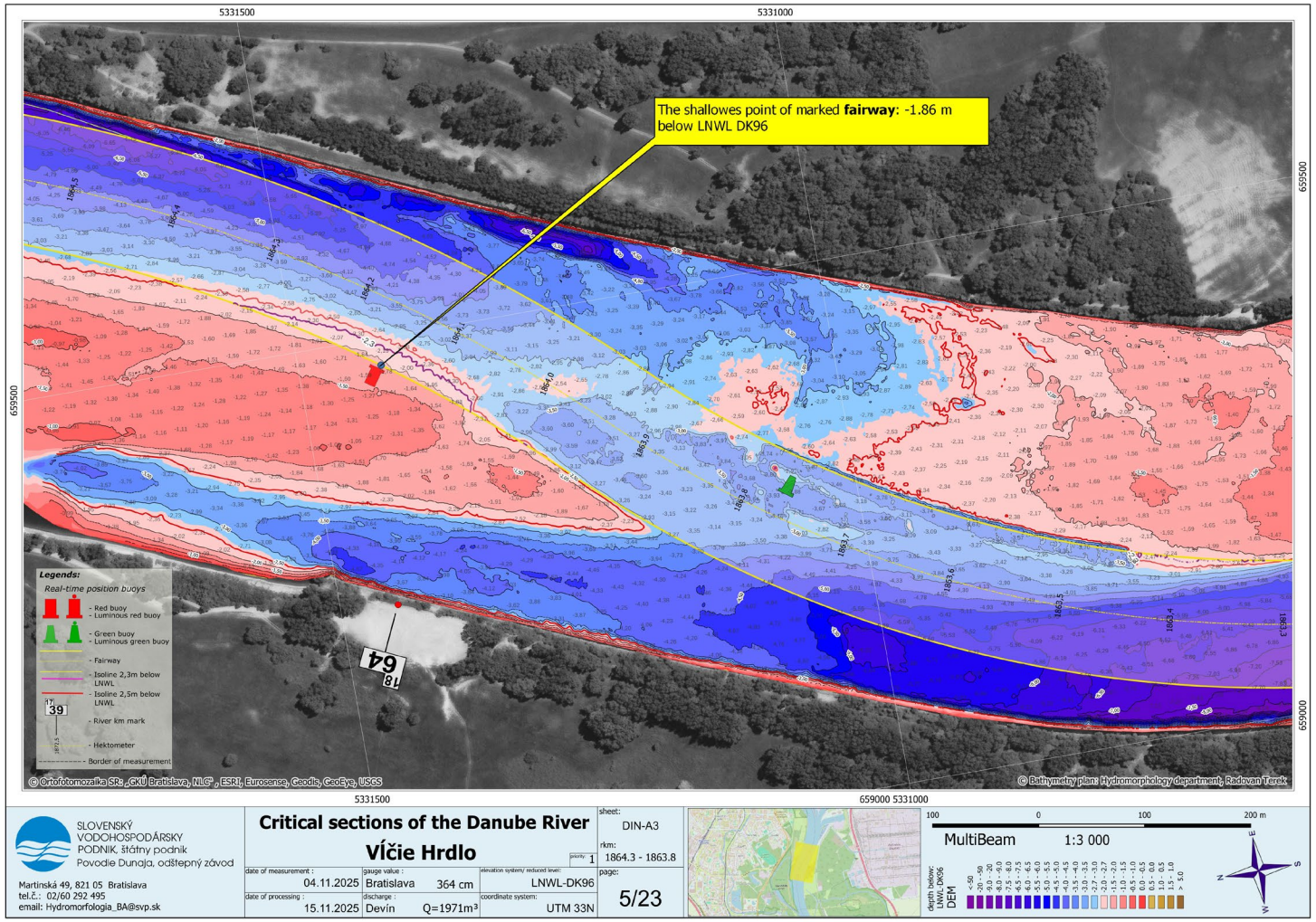
SLOVENSKÝ VODOHOSPODÁRSKY PODNIK, štátny podnik
Povodie Dunaja, odštepný závod
Martinská 49, 821 05 Bratislava
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk
Critical sections of the Danube River
Devín
sheet: DIN-A3
rkm: 1879,6 - 1879.0
priority 2
page: 1/23
date of measurement : 05.11.2025
gauge value : Devín 244 cm
elevation system/ reduced level: LNWL2020
date of processing : 17.11.2025
discharge : Devín Q=1763m³
coordinate system: UTM 33N
100 0 100 200 m
MultiBeam 1:3 000
depth below: LNWL2020 DEM
N
W
E
S



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Povodie Dunaja, odštepný závod
Martinská 49, 821 05 Bratislava
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk

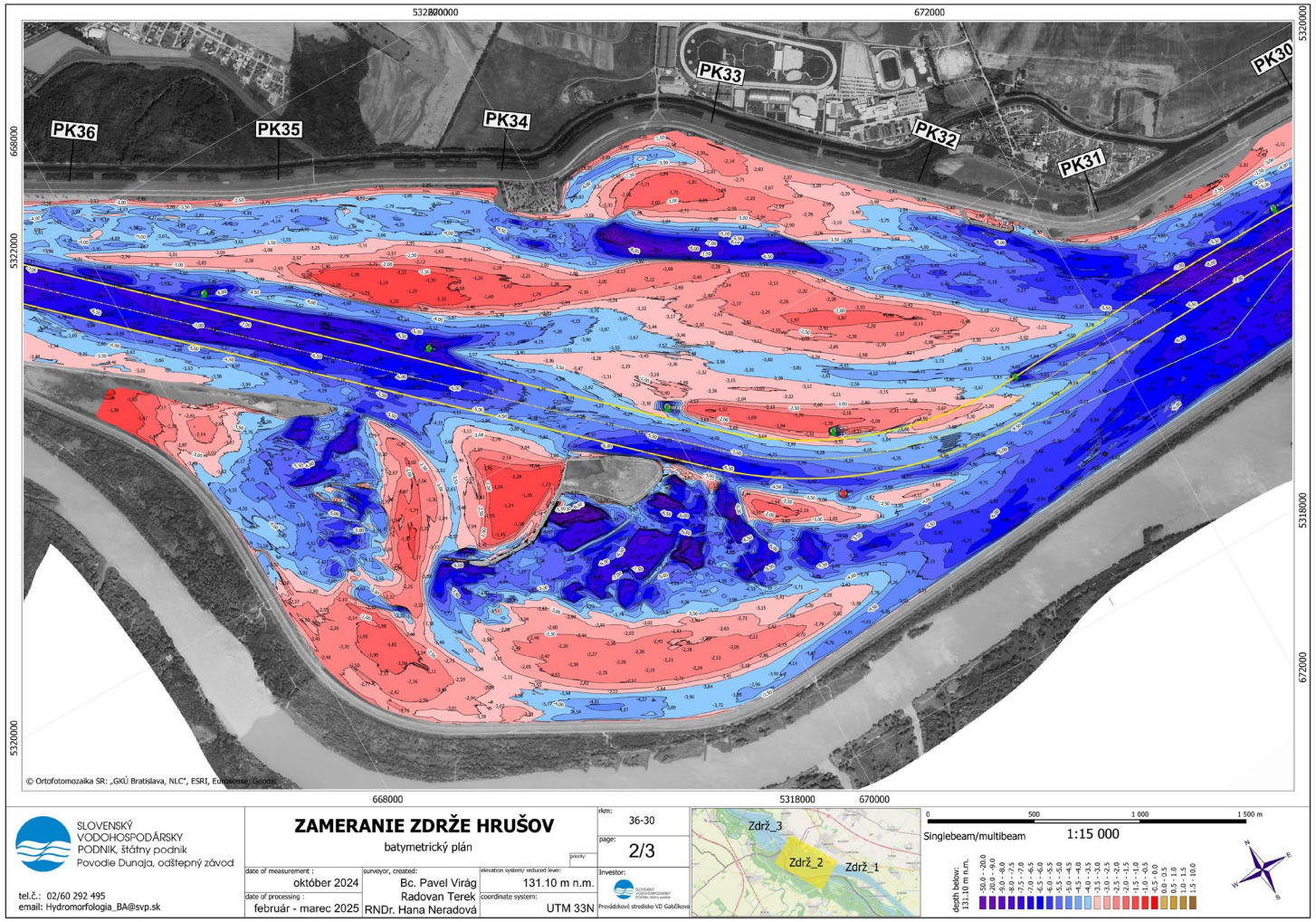
Critical sections of the Danube River
Víčie Hrdlo

priority: 1

date of measurement :	gauge value :		elevation system/ reduced level:
04.11.2025	Bratislava	364 cm	LNWL-DK96
date of processing :	**discharge :**		**coordinate system:**
15.11.2025	Devín	Q=1971m³	UTM 33N

sheet: DIN-A3
rkm: 1864.3 - 1863.8
page: 5/23

100 0 100 200 m
MultiBeam 1:3 000
depth below: LNWL DK96 [m]
DEM
<-50 | -20 - -50 | -10 - -20 | -8.0 - -10 | -7.5 - -8.0 | -7.0 - -7.5 | -6.5 - -7.0 | -6.0 - -6.5 | -5.5 - -6.0 | -5.0 - -5.5 | -4.5 - -5.0 | -4.0 - -4.5 | -3.5 - -4.0 | -3.0 - -3.5 | -2.7 - -3.0 | -2.5 - -2.7 | -2.0 - -2.5 | -1.5 - -2.0 | -1.0 - -1.5 | -0.5 - -1.0 | 0.0 - -0.5 | 0.5 - 0.0 | 1.0 - 0.5 | 1.5 - 1.0 | > 5.0
N E S W


672000
5320000
PK36
PK35
PK34
PK33
PK32
PK31
PK30
668000
5322000
5318000
672000
5320000
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668000
5318000
670000
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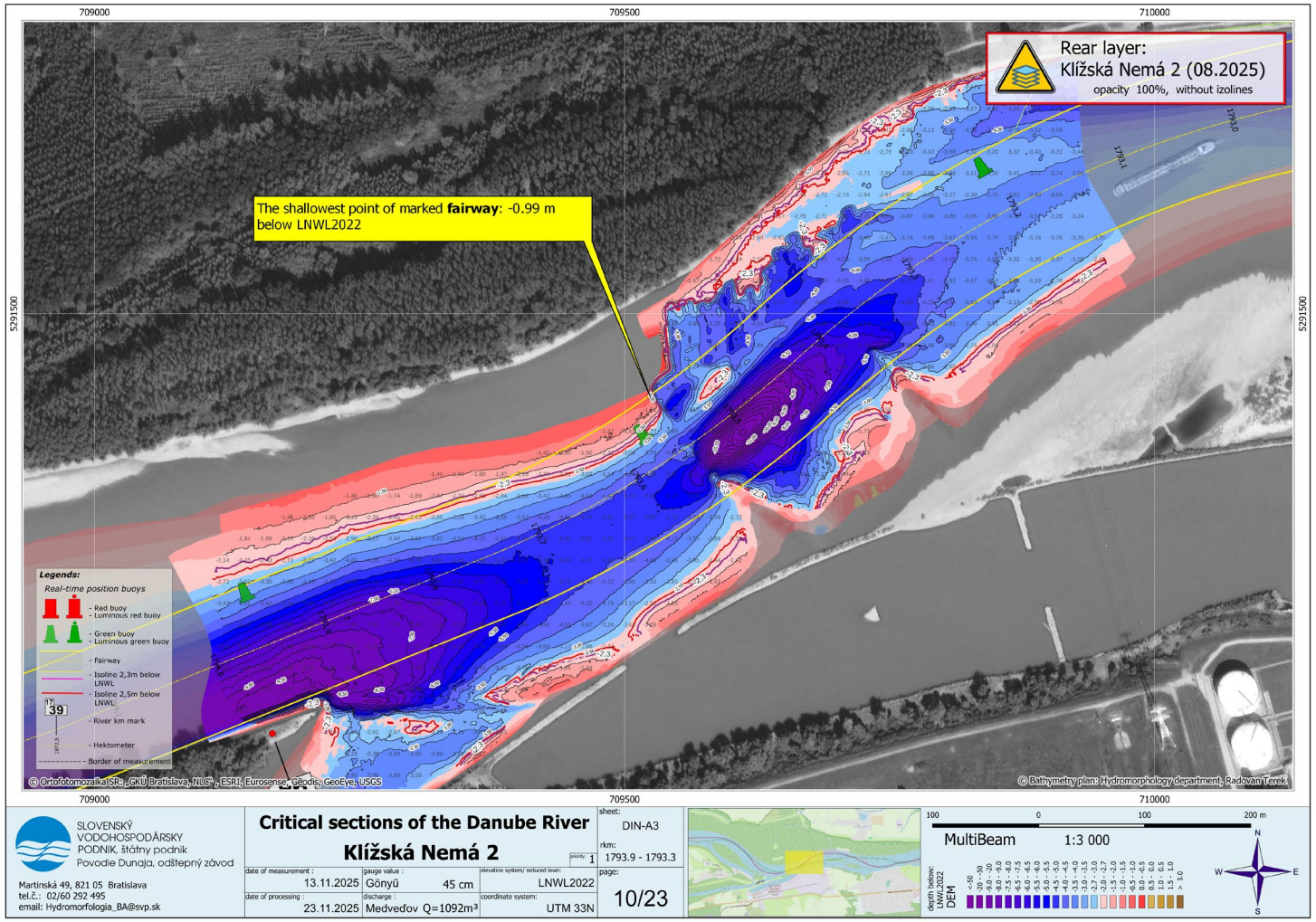
Povodie Dunaja, odštepný závod
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk
ZAMERANIE ZDRŽE HRUŠOV
batymetrický plán
rkm: 36-30
page: 2/3
priority:
date of measurement : október 2024
surveyor, created: Bc. Pavel Virág
Radovan Terek
elevation system/ reduced level: 131.10 m n.m.
Investor:
Prevádzkové stredisko VD Gabčíkovo
date of processing : február - marec 2025
RNDr. Hana Neradová
coordinate system: UTM 33N
Zdrž_3
Zdrž_2
Zdrž_1
0
500
1 000
1 500 m
Singlebeam/multibeam
1:15 000
depth below: 131.10 m n.m.
50.0 - 20.0
20.0 - 8.0
8.0 - 7.5
7.5 - 7.0
7.0 - 6.5
6.5 - 6.0
6.0 - 5.5
5.5 - 5.0
5.0 - 4.5
4.5 - 4.0
4.0 - 3.5
3.5 - 3.0
3.0 - 2.5
2.5 - 2.0
2.0 - 1.5
1.5 - 1.0
1.0 - 0.5
0.5 - 0.0
0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 10.0
N
E
S
W


709000
709500
710000
5291500
Rear layer:
Klížská Nemá 2 (08.2025)
opacity 100%, without izolines
The shallowest point of marked **fairway**: -0.99 m
below LNWL2022
Legends:
Real-time position buoys
- Red buoy
- Luminous red buoy
- Green buoy
- Luminous green buoy
- Fairway
- Isoline 2,3m below LNWL
- Isoline 2,5m below LNWL
- River km mark
- Hektometer
- Border of measurement
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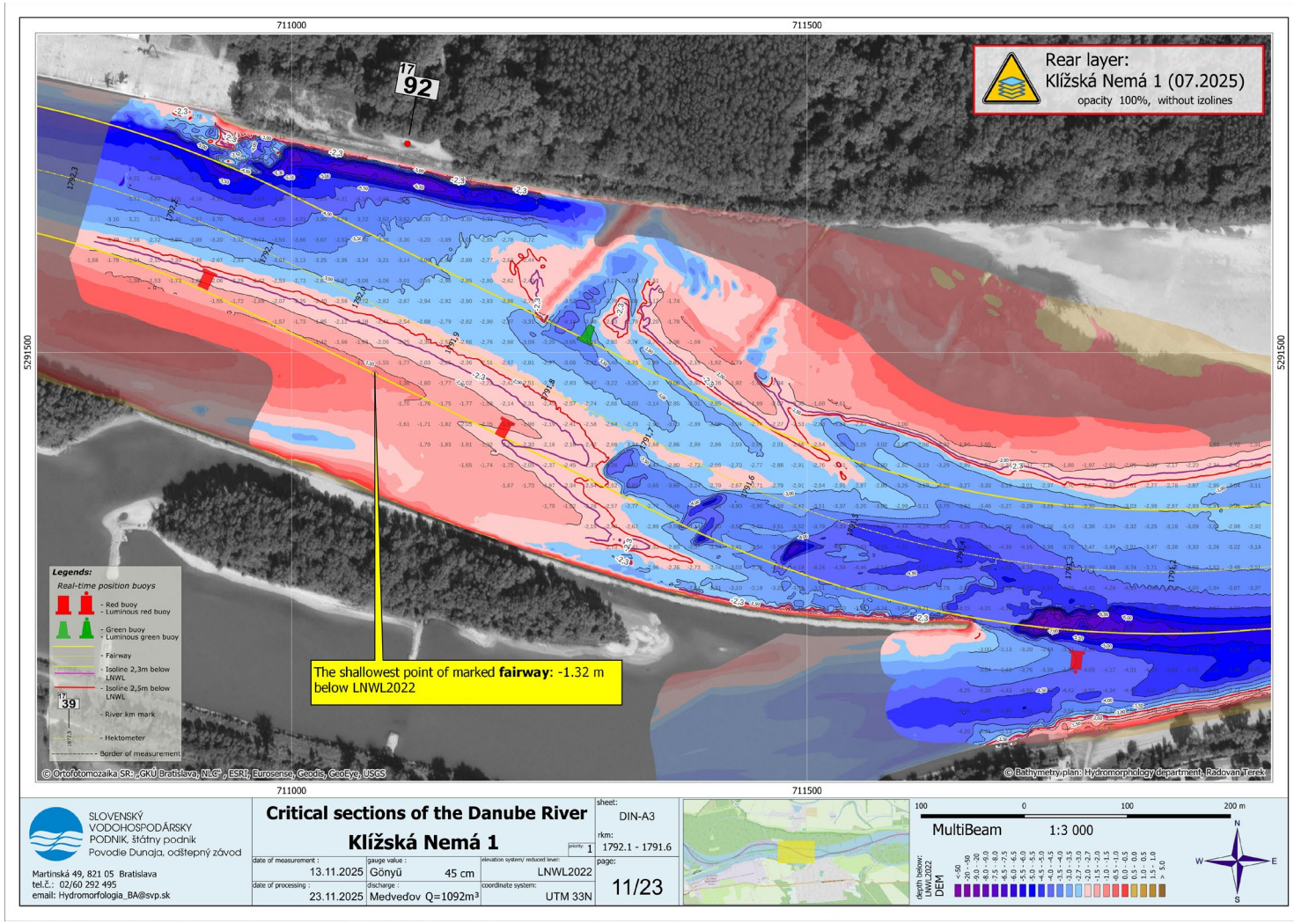
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk
Critical sections of the Danube River
Klížská Nemá 2
priority 1
sheet: DIN-A3
rkm: 1793.9 - 1793.3
page: 10/23
date of measurement : 13.11.2025
gauge value : Gönyü 45 cm
elevation system/ reduced level: LNWL2022
date of processing : 23.11.2025
discharge : Medvedov Q=1092m³
coordinate system: UTM 33N
MultiBeam 1:3 000
depth below: LNWL2022
DEM
N
W
E
S


711000
711500
5291500
Rear layer:
Klížská Nemá 1 (07.2025)
opacity 100%, without izolines
17
92
Legends:
Real-time position buoys
- Red buoy
- Luminous red buoy
- Green buoy
- Luminous green buoy
- Fairway
- Isoline 2,3m below LNWL
- Isoline 2,5m below LNWL
- River km mark
- Hektometer
- Border of measurement
The shallowest point of marked fairway: -1.32 m below LNWL2022
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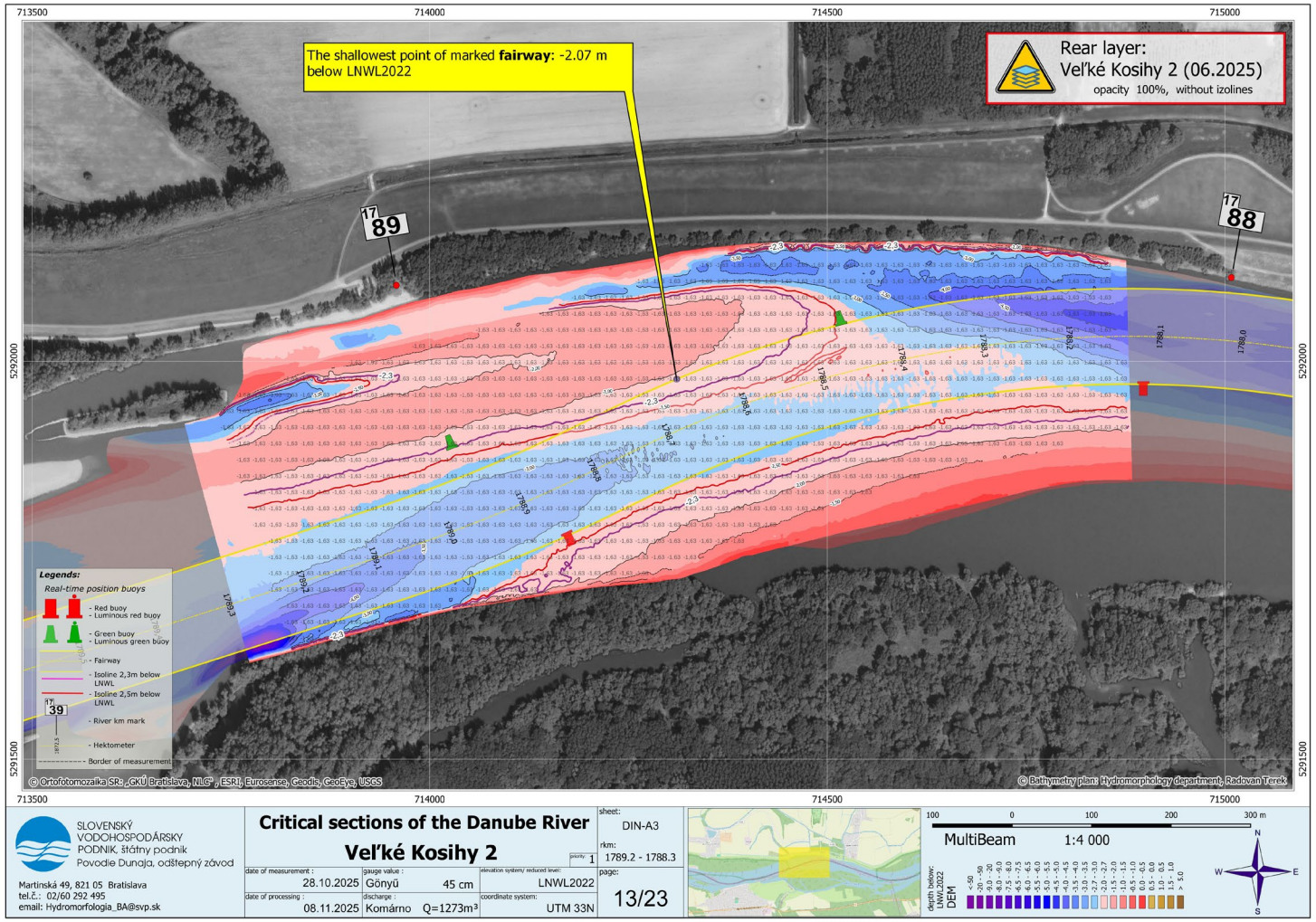
Martinská 49, 821 05 Bratislava
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk
Critical sections of the Danube River
Klížská Nemá 1
priority 1
sheet: DIN-A3
rkm: 1792.1 - 1791.6
page: 11/23
date of measurement: 13.11.2025
gauge value: Gönyü 45 cm
elevation system/ reduced level: LNWL2022
date of processing: 23.11.2025
discharge: Medvedov Q=1092m³
coordinate system: UTM 33N
MultiBeam 1:3 000
depth below: LNWL2022
DEM
N
W
E
S


713500
714000
714500
715000
5292000
5291500
The shallowest point of marked **fairway**: -2.07 m below LNWL2022
Rear layer:
Veľké Kosihy 2 (06.2025)
opacity 100%, without izolines
17 89
17 88
Legends:
Real-time position buoys
- Red buoy - Luminous red buoy
- Green buoy - Luminous green buoy
- Fairway
- Isoline 2,3m below LNWL
- Isoline 2,5m below LNWL
- River km mark
- Hektometer
- Border of measurement
17 39
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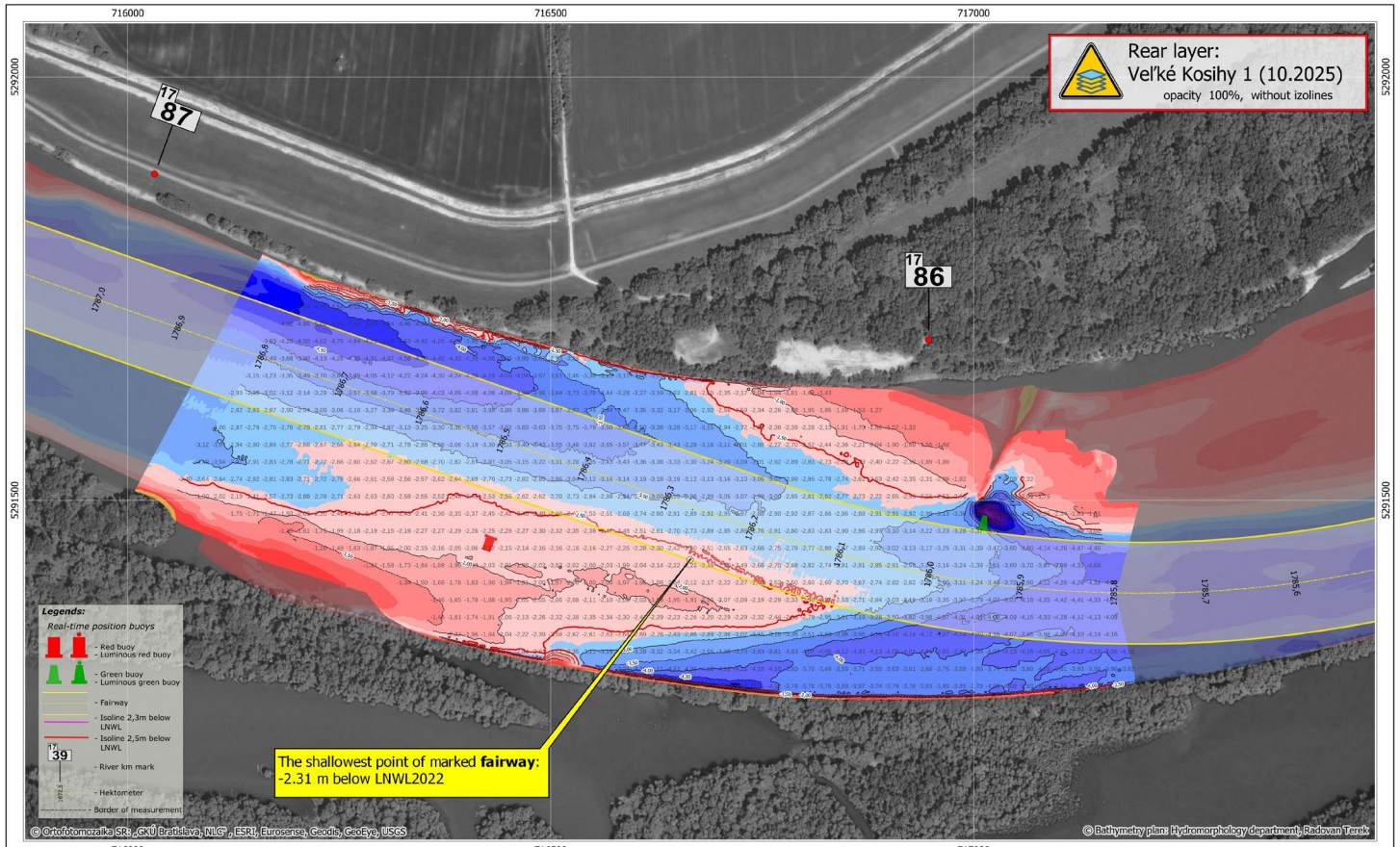
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk
Critical sections of the Danube River
Veľké Kosihy 2
priority 1
sheet: DIN-A3
rkm: 1789.2 - 1788.3
page: 13/23
date of measurement : 28.10.2025
gauge value : Gönyü 45 cm
elevation system/ reduced level: LNWL2022
date of processing : 08.11.2025
discharge : Komárno Q=1273m³
coordinate system: UTM 33N
100 0 100 200 300 m
MultiBeam 1:4 000
depth below: LNWL2022
DEM
N
W
E
S



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Povodie Dunaja, odštepný závod
Martinská 49, 821 05 Bratislava
tel.č.: 02/60 292 495
email: Hydromorfologia_BA@svp.sk

Critical sections of the Danube River
Veľké Kosihy 1

priority: 1

date of measurement : 19.11.2025	gauge value : Gönyü 64 cm	elevation system/ reduced level: LNWL2022	
date of processing : 30.11.2025	discharge : Komárno Q=1340m³	coordinate system: UTM 33N	

sheet: DIN-A3
rkm: 1786.7 - 1785.9
page: 14/23

MultiBeam 1:4 000
100 0 100 200 300 m
depth below: LNWL2022 DEM
N W E S

SLOVENSKÝ
VODOHOSPODARSKY
PODNIK, š.p.

Thank you for your attention.