

Supplementary Tables

Microbiological contamination prediction of river deltas in similar areas and applicability throughout Mediterranean areas

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Table S1: Limits of bathing water parameters in accordance with Directive 2006/7/EC

Parameter	Excellent quality (in 95% of the samples)	Good quality (in 95% of the samples)	Sufficient quality (in 90% of the samples)
E. Coli (cfu/100ml)	250	500	500
Enterococcus (cfu/100ml)	100	200	185

Table S2: Council Directive 76/160/EEC concerning the quality of bathing water (Water Framework Directive (2000/60/EC)).

Parameter	Desirable limit (cfu/100ml)	Maximum limit (cfu/100ml)
<i>Total coliforms</i>	500	10,000
<i>Fecal coliforms</i>	100	2,000
<i>E. Coli</i>	250	500
<i>Enterococcus</i>	100	200

Dates of sample collection		Type of bacterium	Alexandrini	Agia Paraskevi – Stomio	Faros – Stomio	Nea Mesangala
Spring May 16 th 2023		<i>Total Coliforms</i> (cfu/100ml)	196	138	118	192
		<i>E. coli</i> (cfu/100ml)	76	50	20	280
		<i>Enterococcus</i> (cfu/100ml)	30	0	0	600
Summer August 21 st 2023		<i>Total Coliforms</i> (cfu/100ml)	111	657	411	411
		<i>E. coli</i> (cfu/100ml)	12	369	228	373
		<i>Enterococcus</i> (cfu/100ml)	15	6	3	24
Autumn November 6 th 2023		<i>Total Coliforms</i> (cfu/ 100ml)	519	99	621	528
		<i>E. coli</i> (cfu/100ml)	0	3	81	360
		<i>Enterococcus</i> (cfu/100ml)	3	0	6	4
Winter February 28 th 2024		<i>Total Coliforms</i> (cfu/100ml)	1446	384	1410	1347
		<i>E. coli</i> (cfu/100ml)	432	39	150	186
		<i>Enterococcus</i> (cfu/100ml)	399	39	225	426

Table S3: Results of the microbiological analyses carried out for the study areas in Greece.

Table S4: Mann – Whitney Test before and after the flood events.

	E. coli	Enterococcus
Mann–Whitney U	33,500	47,000
Wilcoxon W	111,500	83,000
Z	-1,120	-,077
Asymp. Sig. (2-tailed)	,263*	,938 [#]
Exact Sig. [2*(1-tailed Sig.)]	,270 ^b	,970 ^b

* $P=0,263>0,05$, * $P=0,938>0,05$, b: Not corrected for ties.

Table S5: Mann – Whitney Test for all points in Greece and Spain, for either of the two pathogenic bacteria.

	E. coli					Enterococcus		
	Alexan drini– Spain	Agia Paraske vi – Stomio –Spain	Faros – Stomio –Spain	Nea Mesang ala– Spain	Alexandr ini–Spain	Agia Paraske vi – Stomio –Spain	Faros – Stomio –Spain	Nea Mesang ala– Spain
Mann–Whitney U	4,500	4,500	5,000	5,000	6,500	3,000	5,000	10,000

Wilcoxon W	19,500	19,500	20,000	20,000	21,500	18,000	20,000	25,000
Z	-1,353	-1,353	-1,225	-1,225	-1,588	-2,216	-1,843	-,923
Asymp. Sig. (2-tailed)	,176*	,176*	,221*	,221*	,112*	,027*	,065*	,356*
Exact Sig. [2*(1-tailed Sig.)]	,190 ^b	,190 ^b	,286 ^b	,286 ^b	,126 ^b	,030 ^b	,082 ^b	,429 ^b

*P=0.176>0.05, *P=0.221>0.05, *P=0.112>0.05, *P=0.027<0.05, *P=0.065>0.05, *P=0.356>0.05, b: Not corrected for ties.