

Supplementary material for the Article:

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		Main effect		Pairwise comp			Main effect		Pairwise comp			Interaction effect		Pairwise comp		
	test	Station effect					Depth effect					Station*depth				
		stats	p	S1	S2	S3	stats	p	L1	L2	L3	stats	p	S1	S2	S3
Physico-chemical parameters																
Redox potential (mV)	SRH	H=17.3	p=0.0002	b	a	b										
Granulometry (%)																
Clay	SRH	H=21.1	p=0.00003	a	c	b										
Silt		H=18.2	p=0.0001	a	b	b										
Sand		H=17.5	p=0.0002	b	a	a										
Carbon and Nitrogen																
C:N	SRH	H=19.1	p=0.0001	b	a	a										
TOC	SRH	H=16.7	p=0.0002	b	a	a										
Prokaryotic community (number of 16S gene copies mg ⁻¹ d.w.)																
BAC 16S	SRH	H=15.3	p=0.0005	b	a	a										
Pigments concentrations (µg cm ⁻³)																
An	SRH	H=10.2	p=0.006	b	b	a	H=7.5	p=0.02	b	ab	a					
Bb	SRH	H=14.2	p=0.001	a	b	a										
Ca							H=15	p=0.0006	b	a	a					
Cb							H=12.3	p=0.002	b	b	a					
F							H=10.5	p=0.005	b	a	a					
L	SRH	H=7.05	p=0.03	ab	b	a	H=10.3	p=0.005	b	ab	a					
Pda							H=11.8	p=0.003	b	a	a					
Pha							H=12.4	p=0.002	b	a	a					

UP1							H=12.7	p=0.002	b	a	a						
UP2							H=14.5	p=0.001	b	a	a						
UP3							H=11.7	p=0.003	b	a	a						
UP4	SRH	H=7	p=0.03	a	b	ab											
Vio	SRH	H=9.2	p=0.01	a	b	a	H=6.3	p=0.04	b	a	a						
Concentrations of organic contaminants (ng g ⁻¹)																	
PAHs	SRH	H=11.1	p=0.004	a	a	b											
Pesticides	SRH	H=17.4	p=0.0002	b	b	a											
PCB	SRH	H=17.9	p=0.0001	b	b	a											
Concentrations of metals and metalloids (µg.g-1)																	
Al	A	F=7.7	p=0.004	a	ab	b											
Ag	A	F=7.6	p=0.004	b	a	ab											
As	SRH	H=10.6	p=0.005	b	a	a											
Ba	A	F=13.4	P=0.0003	a	a	b											
Bi	A	F=22.9	p=10 ⁻⁵	b	a	a											
Cd	SRH	H=16	p=0.0003	b	a	a											
Cr	A	F=13.6	P=0.0002	a	b	b											
Cs	A	F=8.8	p=0.002	a	ab	b											
Hg	SRH	H=18.9	P=0.0001	c	a	b											
Mn	SRH	H=17.2	p=0.0002	a	b	b											
Mo	SRH	H=15.4	p=0.0004	b	a	a											
Ni	SRH	H=8.8	P=0.01	a	ab	b											
Pb	SRH	H=13.7	p=0.001	c	a	b											
U	SRH	H=7.6	p=0.02	b	a	b											
V	SRH	H=10.9	p=0.004	a	b	b											
Zn	SRH	H=12.8	p=0.002	a	a	b											

Figure S2: Differences in the most discriminant physical, chemical and biological sediment variables with a $\cos^2 > 0.4$, at the three stations of Cayenne estuary (S1, S2, S3) for each sediment depth (L1, L2, L3) after parametric two-way ANOVAs (F and p-values) or non parametric Scheirer-Ray-Hare (H and p-values) tests depending on the homogeneity of variances. Significant differences ($p < 0.05$) are indicated by a different letter (a, b, c). Last column indicates the pairwise comparisons between the three stations.