

1 Electronic supplementary information

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3 **Total phosphorus determination in Eutrophic Tropical River Sediments**
4 **by Laser-Induced Breakdown Spectroscopy techniques**

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31 **Experimental section:**

32 **Table S1.** Geographic coordinates of collection points.

Collection points	Tributary	Geographic coordinates	
Station 1	Piracicaba river	22°35'55.5"S	48°13'02.8"W
Station 2	Piracicaba river	22°35'36.9"S	48°16'00.0"W
Station 3	Piracicaba river	22°36'01.8"S	48°17'53.5"W
Station 4	Confluence region	22°37'51.6"S	48°20'29.2"W
Station 5	Tietê river	22°39'58.2"S	48°21'49.4"W
Station 6	Tietê river	22°40'11.0"S	48°19'26.4"W
Station 7	Tietê river	22°40'24.7"S	48°15'05.3"W

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34 **Table S2:** Depth of each sedimentary core.

Depth (cm)						
Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7
0 - 10	0 - 5	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10
10 - 20	5 - 10	10 - 15	20 - 20	10 - 20	10 - 20	10 - 20
20 - 25	10 - 15	15 - 20	20 - 30	20 - 25	20 - 22	20 - 30
25 - 30	15 - 20	20 - 25	30 - 35	25 - 30	22 - 24	30 - 35
30 - 35	20 - 25	25 - 30	35 - 40	30 - 35	24 - 26	35 - 40
35 - 40	25 - 27	30 - 32	40 - 45	35 - 40	26 - 28	40 - 45
40 - 42	27 - 29	32 - 34	45 - 50	40 - 42	28 - 30	45 - 50
42 - 44	29 - 31	34 - 36	50 - 55	42 - 44	32 - 32	50 - 52
44 - 46	31 - 33	36 - 38	55 - 60	44 - 46	32 - 34	52 - 54
46 - 48	33 - 35	-	60 - 62	46 - 48	-	54 - 59
-	-	-	62 - 67	-	-	-

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