Supplementary Table S1

Analytes, limits of quantification, and concentrations in the composite samples of the La Paz Park lagoons, Costa Rica.

Table S1a. Metal concentrations (mg/L) in the composite samples of the La Paz Park lagoons and limits of quantification (LOQ). Dry season: sampling of 3 February 2023 (report A-23/013094); rainy season: sampling of 26 September 2023 (report A-23/121108). "<LOQ" indicates a value below the limit of quantification; results were not corrected for recovery factors.

Analyte	LOQ (mg/L)	Dry season	Rainy season
Aluminum	0.00250	0.30357	1.1202
Antimony	0.00010	0.00023	0.00133
Arsenic	0.00010	0.00087	0.00057
Sulfur	2.0	12	2.2
Barium	0.000250	0.016911	0.058740
Beryllium	0.00025	< 0.00025	< 0.00025
Boron	0.0050	0.0539	0.0128
Cadmium	0.00010	< 0.00010	< 0.00010
Calcium	0.50	25	17
Cobalt	0.00010	0.00012	0.00077
Copper	0.00010	0.01474	0.00437
Chromium	0.00010	0.00110	0.00099
Tin	0.00010	0.00107	0.00045
Strontium	0.00010	0.21145	0.14552
Phosphorus	0.050	4.34	0.123
Iron	0.0010	0.1753	1.757
Lithium	0.0050	< 0.0050	< 0.0050
Magnesium	0.50	12	4.1
Manganese	0.00010	0.00876	0.34724
Mercury	0.00010	0.00013	0.00013
Molybdenum	0.00010	0.00155	0.00071
Nickel	0.00010	0.00295	0.00190
Silver	0.0010	< 0.0010	< 0.0010
Lead	0.00010	0.00156	0.00083
Potassium	0.50	19	1.7
Selenium	0.010	< 0.010	< 0.010
Silica	2.1	75	14
Silicon	1.0	35	6.3
Sodium	0.50000	36.536	3.5027
Thallium	0.00010	< 0.00010	< 0.00010
Titanium	0.00050	0.00401	0.03549
Vanadium	0.00010	0.00699	0.00465
Zinc	0.0010	0.0763	0.0355

Table S1b. Organic compounds analyzed and limits of quantification. All compounds were below the LOQ in both seasons.

Group	LOQ (µg/L)	Result (both seasons)
Trihalomethanes (bromodichloromethane, bromoform, chloroform, dibromochloromethane)	1.00	<LOQ
BTEX: benzene	0.50	<LOQ
BTEX: ethylbenzene, m,p-xylene, o-xylene, toluene	1.00	<LOQ
Other volatile organic compounds (chlorinated and aromatic compounds, MTBE, naphthalene, among others)	1.00	<LOQ
Dichloromethane	5.00	<LOQ
Antibiotics (azithromycin, clarithromycin, erythromycin A)	0.0050	<LOQ
Neonicotinoids (acetamiprid, clothianidin, imidacloprid, thiamethoxam, thiacloprid)	0.0050	<LOQ

Analytical methods: IT-399, SM 3125 Ed 23, EPA 200.8, EPA 6020 B (metals); IT-383, EPA 8260 D (volatile organic compounds); PE-678 (antibiotics and neonicotinoids). Analyses by AGQ Laboratories (A-23/013094 and A-23/121108). The original reports, including expanded uncertainties, are available at https://doi.org/10.5281/zenodo.22033013.