

SUPPLEMENTARY TABLES

Table S1. Distribution of collected samples, presented by collection period and water type.

Period	Sewage Water		Standing Water		Positive samples/ samples collected
	Collected samples	Positive samples	Collected samples	Positive samples	
July	84	38 (45%)	70	35 (50%)	73/154 (47%)
January	82	12 (15%)	48	22 (46%)	34/130 (26%)
Total	166	50 (30%)	118	57 (48%)	107/284 (38%)

Table S2. Physicochemical parameters (mean and standard deviation) and concentration of pathogenic *Leptospira* (geometric mean and count range among positive samples) measured in the standing and sewage water samples collected in Pau da Lima.

	Overall	Sewage	Standing	<i>p</i>
Temperature (°C)	25.7 ± 2.21	25.9 ± 2.05	25.3 ± 2.38	0.01
pH	7.2 ± 0.45	7.3 ± 0.32	7.1 ± 0.56	<0.01
Turbidity (NTU)	298 ± 223	229 ± 151	395 ± 270	<0.01
Total dissolved solids (TDS) (mg/L)	530 ± 272	652 ± 219	359 ± 247	<0.01
Electrical Conductivity (µS)	0.98 ± 0.47	1.20 ± 0.35	0.67 ± 0.44	<0.01
Salinity (‰)	0.26 ± 0.25	0.37 ± 0.20	0.12 ± 0.23	<0.01
<i>Leptospira</i> concentration (GEq/mL)	194 ± 205.7	181 ± 153.5	205 ± 243.3	0.94

Table S3. Estimated regression parameters in the bivariate logistic (Odds ratio and confidence interval) and linear (coefficient and confidence interval) models on the probability of finding a positive sample and log10 concentration of *Leptospira*, respectively. Analysis of the interaction of chemical physical parameters by water type. (***) $p < 0.01$, (**) $p < 0.05$, (*) $p < 0.1$.

	Logistic Model			Linear Model		
	<i>Odds Ratio</i>	<i>95% CI</i>	<i>p</i>	<i>Coeficiente</i>	<i>CI</i>	<i>p</i>
Temperature	0.86	0.76–0.96	0.009	–0.04	–0.07–0.00	0.05
Temperature :Water	1.02	1.01–1.04	0.011	0	–0.01–0.00	0.692
pH	0.45	0.26–0.79	0.006	0.23	0.06–0.40	0.01
pH: Water	1.09	1.02–1.17	0.01	0.01	–0.01–0.03	0.491
Turbidity	1	1.00–1.00	0.132	0	–0.00–0.00	0.125
Turbidity: Water	1	1.00–1.00	0.019	0	–0.00–0.00	0.221
TDS	1	1.00–1.00	<0.001	0	–0.00–0.00	0.822
TDS: Water	1	1.00–1.00	0.044	0	–0.00–0.00	0.82
Salinity	0.27	0.09–0.74	0.013	0.28	–0.06–0.62	0.101
Salinity: Water	0.63	0.29–1.29	0.221	0.24	0.02–0.45	0.03
EletrConduc	0.48	0.28–0.82	0.009	0.19	0.01–0.37	0.04
EletrConduc: Water	0.99	0.66–1.44	0.951	0.16	0.05–0.27	0.01