

Table S1. Physico-chemical analysis of Pangong sediment sample.

S.No.	Parameters	Pangong sediment	Unit
1	Conductivity of sediment ^a	1.565	mmho/cm
2	Total organic carbon (TOC) ^θ	0.122	%
3	Total kjeldahl nitrogen (TKN) [*]	0.46	mg/kg
4	Total Dissolved Solids (TDS) ^ψ	5450	mg/kg
5	Phosphorus ^ψ	11	mg/kg
6	Sulphate ^ψ	BDL	mg/kg
7	Ammonical nitrogen ^ψ	34	mg/kg
8	Nitrate nitrogen ^ψ	5	mg/kg
9	Nitrite (as NO ₂) ^ψ	0.20	mg/kg
10	Calcium (as Ca) ^ω	3889	mg/kg
11	Magnesium (as Mg) ^ω	1287	mg/kg
12	Zn (as Zn) ^ω	28.47	mg/kg
13	Manganese (as Mn) ^ω	548.37	mg/kg
14	Iron (as Fe) ^ω	1.47	%
15	Boron (as B) ^ω	71.90	mg/kg
16	Copper (as Cu) ^ω	46.66	mg/kg
17	Cobalt (as Cd) ^ω	9.5	mg/kg
18	Molybdenum (as Mo) ^ω	0.56	mg/kg
19	Cadmium (Cd) ^ω	0.12	mg/kg
20	Chromium (Cr) ^ω	17.28	mg/kg
21	Aluminium (as Al) ^ω	0.58	%
22	Barium ^ω	47.14	mg/kg
23	Nickel (as Ni) ^ω	12.98	mg/kg
24	Lead (as Pb) ^ω	5.84	mg/kg
25	Mercury (as Hg) ^ω	BDL	mg/kg
26	Arsenic (As) ^ω	15.09	mg/kg
27	Chloride (as Cl) ^ψ	520	mg/kg
28	Salinity ^a	0.74	ppt
29	Lithium ^ω	14.70	mg/kg
30	Vanadium ^ω	28.80	mg/kg
31	Selenium (as Se) ^ω	0.24	mg/kg
32	Silicon (Si) ^ω	400	mg/kg

^aAPHA2510 B, ^θ IS 2720, ^{*} AOAC 955.04, ^ψ Baruah & Barthakur, 1998, ^ω AOAC 990.08.