

Surface water quality In Puducherry July-September 2018

Sl.No	Parameters	Bahoor lake	Chunambar	Ousteri	Kanaganeri Lake
1	Dt.of Sampling	03.09.2018	03.09.2018	03.09.2018	05.09.2018
2	Time	03:05 PM	01:35 PM	01:15 PM	04:30 PM
3	Temperature °C	34	35	35	34
4	DO mg/l	8.9	8.7	8.3	3.7
5	pH	6.62	8.70	8.48	7.31
6	Conductivity µmho/cm	629	1066	575	937
7	COD (mg/l)	72.0	20.0	64.0	140.0
8	BOD (mg/l)	2.0	3.0	3.0	6.0
9	Turbidity NTU	13.6	11.1	91.8	20.5
10	Nitrate -N (mg/l)	1.67	1.13	BDL	0.9
11	Nitrite-N (mg/l)	0.011	BDL	BDL	6.2
12	Nitrate (mg/l)	7.4	5.0	BDL	4.0
13	Bi- Carbonate as CaCO₃ (mg/l)	179.4	198.1	121.2	207.4
14	Carbonate (mg/l)	-	23.3	28.0	-
15	Chloride (mg/l)	108	184	120	384
16	Ammonia -N (mg/l)	BDL	BDL	BDL	3.46
17	Total Hardness (mg/l)	90	192	90	190
18	Calcium hardness (mg/l)	48	112	70	168
19	Magnesium hardness (mg/l)	42	80	20	22
20	Calcium as Ca⁺⁺ (mg/l)	19.2	44.8	28.0	67.2
21	Magnesium as Mg⁺⁺ (mg/l)	10.21	19.44	4.86	5.35
22	TDS (mg/l)	350	506	356	534
23	TSS (mg/l)	20	16	138	22
24	FDS /TFS (mg/l)	130	258	208	242
25	Sodium (mg/l)	98.0	168.6	80.4	114.3
26	Potassium (mg/l)	8.4	6.2	5.6	9.3
27	Sulphate (mg/l)	23	79	17	32
28	P/R ratio	2.9	2.0	4.8	-
29	% Sodium	67.8	64.6	64.2	55.2
30	SAR	4.5	5.3	3.7	3.6
31	Alpha BHC mg/L	BDL	BDL	BDL	BDL
32	Beta BHC mg/L	BDL	BDL	BDL	BDL
33	Gamma BHC mg/L	BDL	BDL	BDL	BDL
34	OP DDT mg/L	BDL	BDL	BDL	BDL
35	PP DDT mg/L	BDL	BDL	BDL	BDL
36	Alpha Endosulphan mg/L	BDL	BDL	BDL	BDL
37	Beta Endosulphan mg/L	BDL	BDL	BDL	BDL
38	Dieldrin mg/L	BDL	BDL	BDL	BDL

Sl.No	Parameters	Bahoor	Chunambar	Ousteri	Kanaganeri Lake
39	Carbaryl (Carbamate) mg/L	BDL	BDL	BDL	BDL
40	2,4-D mg/L	BDL	BDL	BDL	BDL
41	Malathion mg/L	BDL	BDL	BDL	BDL
42	Methyl Parathion mg/L	BDL	BDL	BDL	BDL
43	Anilophos mg/L	BDL	BDL	BDL	BDL
44	Chloropyriphos mg/L	BDL	BDL	BDL	BDL
45	Copper mg/L	BDL	BDL	BDL	BDL
46	Nickel mg/L	BDL	BDL	BDL	BDL
47	Cadmium mg/L	BDL	BDL	BDL	BDL
48	Lead mg/L	BDL	BDL	BDL	BDL
49	Total Chromium mg/L	BDL	BDL	BDL	BDL
50	Iron mg/L	0.54	0.28	0.85	0.26
51	Zinc mg/L	BDL	BDL	BDL	BDL
52	Arsenic mg/L	BDL	BDL	BDL	BDL
53	Mercury ng/L	BDL	BDL	BDL	BDL
54	Total Coliform MPN/100ml	220	240	350	220
55	Faecal Coliform MPN/100ml	80	AB	AB	AB

AB - Absent
BDL - Below Detectable Limit

