

Surface Water Quality Data in Karaikal for JAN - MAR 2021 Quarter

Sl.No.	Parameters	Arasalar River
	Station Code	1685
1	Latitude	10° 54' 34.2" N
2	Longitude	79 ° 49' 4.2" E
3	Dt.of Sampling	28.01.2021
4	Time	06.45 A.M
5	Temperature °C	27.3
6	DO mg/l	5.3
7	pH	7.82
8	Conductivity µmho/cm	724
9	COD (mg/l)	20.0
10	BOD (mg/l)	BDL (DL-1)
11	Turbidity NTU	1.5
12	Nitrate -N (mg/l)	0.8
13	Nitrite-N (mg/l)	BDL (DL-0.02)
14	Nitrate (mg/l)	3.7
15	Bi- Carbonate (mg/l)	253.9
16	P. Alkalinity (mg/l)	Nil
17	Total Alkalinity (mg/l)	208.1
18	Chloride (mg/l)	87.4
19	Ammonia -N (mg/l)	0.09
20	Total Hardness as CaCO ₃ (mg/l)	206
21	Calcium Hardness as CaCO ₃ (mg/l)	106
22	Magnesium Hardness as CaCO ₃ (mg/l)	100
23	Calcium as Ca ⁺⁺ (mg/l)	42.4
24	Magnesium as Mg ⁺⁺ (mg/l)	24.3
25	TDS (mg/l)	397
26	TSS (mg/l)	BDL (DL-10)
27	FDS /TFS (mg/l)	272

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28	Sodium (mg/l)	69.1
29	Potassium (mg/l)	5.1
30	Hexavalent Chromium (mg/l)	BDL
31	Sulphate (mg/l)	36.0
32	Ortho phosphate (mg/l)	0.0900
33	% Sodium	41.27
34	SAR	2.10
35	Gamma BHC µg/L	BDL(DL-0.05)
36	OP DDT µg/L	BDL(DL-0.05)
37	PP DDT µg/L	BDL(DL-0.05)
38	PP DDD µg/L	BDL
39	PP DDE µg/L	BDL(DL-0.05)
40	Alpha Endosulphan µg/L	BDL(DL-0.05)
41	Beta Endosulphan µg/L	BDL(DL-0.05)
42	Chloropyriphos µg/L	BDL(DL-0.50)
43	Butachlor µg/L	BDL(DL-0.01)
44	Alachlor µg/L	BDL(DL-0.01)
45	Atrazine µg/L	BDL(DL-0.01)
46	Aldrin µg/L	BDL(DL-0.05)
47	Dieldrin µg/L	BDL(DL-0.05)
48	Monochorotophos µg/L	BDL
49	Ethion µg/L	BDL(DL-0.50)
50	Phorate µg/L	BDL(0.00001)
51	2,4-D µg/L	BDL(DL-1.52)
52	Isoproturon µg/L	BDL
53	Methyl Parathion µg/L	BDL(DL-0.50)
54	Malathion µg/L	BDL(DL-0.50)
55	Heptachlor µg/L	BDL
56	Chlorandane µg/L	BDL

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57	Carbaryl (Carbamate) µg/L	BDL(DL-0.01)
58	Alpha HCH µg/L	BDL (DL-0.05)
59	Beta HCH µg/L	BDL (DL-0.05)
60	Copper (mg/l)	0.020
61	Nickel (mg/l)	BDL (DL-0.01)
62	Cadmium (mg/l)	BDL (DL-0.001)
63	Lead (mg/l)	BDL (DL-0.005)
64	Total Chromium (mg/l)	BDL (DL-0.01)
65	Iron (mg/l)	BDL (DL-0.02)
66	Zinc (mg/l)	BDL (DL-0.1)
67	Arsenic (mg/l)	BDL (DL-0.005)
68	Mercury (mg/l)	BDL (DL-0.0005)
69	Total Coliform MPN/100 ml	1600
70	Faecal Coliform MPN/100ml	300
71	Faecal Streptococci MPN/100ml	<2

BDL - Below Detectable Limit; DL - Detection Limit