

## Coppermine River Water Quality Data

Source: Coppermine River: Overview of Hydrology and Water Quality, Water Resources Division, Indian and Northern Affairs Canada (1998)

*Table 4a. Coppermine River at Desteffany Lake (1995-96).*

Parameter	Maximum Value	Minimum Value	Average Value	Median Value	Standard Deviation	N
pH	6.78	4.08	6.14	6.52	0.79	9
Conductivity ( $\mu\text{S/cm}$ )	33.6	11.1	16.32	15.7	6.64	9
Turbidity (ppm)	1.2	0.1	0.61	0.6	0.36	9
Total Dissolved Solids (ppm)	18	10	14.1	15	3.07	9
Total Suspended Solids (ppm)	9	3	4.11	3	1.85	9
Total Aluminum (ppm)	80.6	13.7	38	28.85	25.73	4
Total Arsenic (ppm)	NA	NA	NA	NA	NA	NA
Total Copper (ppm)	4.5	0.5	1.39	0.9	1.15	9
Total Iron (ppm)	98	20	41.7	31	22.25	9
Total Lead (ppm)	0.001	0.0002	0.0004	0.0003	0.0003	9
Total Manganese (ppm)	13.8	1.7	4.53	4.1	3.49	9
Total Zinc (ppm)	21	0.8	5.13	3.2	5.81	9

*Table 4b. Coppermine River at Outlet of Point Lake (1972-92).*

Parameter	Maximum Value	Minimum Value	Average Value	Median Value	Standard Deviation	N
pH	8.58	6.1	6.94	6.82	0.44	73
Conductivity ( $\mu\text{S/cm}$ )	28	7.1	13.77	13.4	2.52	71
Turbidity (ppm)	5	0.07	0.77	0.3	1.04	72
Total Dissolved Solids (ppm)	11	4	6.93	7	1.32	42
Total Suspended Solids (ppm)	11.2	1.0	1.58	1	1.64	50
Total Aluminum (ppm)	NA	NA	NA	NA	NA	NA
Total Arsenic (ppm)	NA	NA	NA	NA	NA	NA
Total Copper (ppm)	0.0028	0.0006	0.0012	0.001	0.0005	31
Total Iron (ppm)	NA	NA	NA	NA	NA	NA
Total Lead (ppm)	0.0021	0.0007	0.0009	0.0007	0.00032	32
Total Manganese (ppm)	NA	NA	NA	NA	NA	NA
Total Zinc (ppm)	0.020	0.0007	0.0035	0.002	0.0042	32

Table 4c. Coppermine River at Bloody Falls (1975-85).

Parameter	Maximum Value	Minimum Value	Average Value	Median Value	Standard Deviation	N
pH	7.7	6.9	7.44	7.55	0.25	13
Conductivity ( $\mu\text{S}/\text{cm}$ )	79	8.3	52.53	69	26.41	14
Turbidity (ppm)	130	0.2	19.09	8.5	33.02	14
Total Dissolved Solids (ppm)	44	26	37.4	37.5	4.32	10
Total Suspended Solids (ppm)	168	2.0	62.1	41.5	48.54	10
Total Aluminum (ppm)	NA	NA	NA	NA	NA	NA
Total Arsenic (ppm)	NA	NA	NA	NA	NA	NA
Total Copper (ppm)	0.011	0.002	0.0041	0.003	0.0025	10
Total Iron (ppm)	NA	NA	NA	NA	NA	NA
Total Lead (ppm)	0.007	0.001	0.0017	0.001	0.0018	10
Total Manganese (ppm)	NA	NA	NA	NA	NA	NA
Total Zinc (ppm)	0.031	0.003	0.0083	0.005	0.008	10

Table 4d. Coppermine River near the Mouth (1960-73, 1992-96).

Parameter	Maximum Value	Minimum Value	Average Value	Median Value	Standard Deviation	N
pH	8.3	6.4	7.34	7.33	0.34	74
Conductivity ( $\mu\text{S}/\text{cm}$ )	14200	12	585.93	62.9	2184.87	70
Turbidity (ppm)	71	0.2	8.19	3.2	12.17	76
Total Dissolved Solids (ppm)	83	25	41.4	39	12.81	35
Total Suspended Solids (ppm)	127	3.0	17.18	6	28.45	38
Total Aluminum (ppm)	1760	66.8	913.4	913.4	846.6	2
Total Arsenic (ppm)	0.5	0.5	0.5	0.5	0	3
Total Copper (ppm)	6	0.4	2.58	2	1.45	35
Total Iron (ppm)	70.4	0.28	7.21	1.88	13	35
Total Lead (ppm)	0.003	0.0002	0.001	0.0007	0.0008	32
Total Manganese (ppm)	24.5	0.1	6.2	3.4	6.63	23
Total Zinc (ppm)	45.5	0.9	11.35	8.9	10.71	35