

WATER QUALITY OF RIVER MAHANADI - 2

Sundargarh

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.8	7.6	0.8	119	0.56	0.17	1700
February		7.7	8.8	0.8	138	0.56	0.172	1200
March		8	8.2	1	146.5	0.728	0.236	1400
April		7.5	8.7	1.3	148	0.56	0.261	1200
May		7.7	8.6	1.3	144.5	0.56	0.512	1700
June		6.76	7.1	1.6	78.4	0.84	0.198	1200
July		8.2	7.7	0.8	68	1.392	1.888	1700
August		7.8	7.6	1.4	97	0.6	0.22	1500
September		7.6	7.6	0.7	128	0.67	0.19	1700
October		8.1	8.1	2	133	0.73	0.259	1100
November		8.3	8.6	1	161	1.12	0.222	1500
December		7.54	8.7	0.4	155	0.928	0.08	1100
Minimum		6.8	7.1	0.4	68	0.56	0.08	1100
Maximum		8.3	8.8	2	161	1.39	1.89	1700
Average		7.8	8.1	1.1	126	0.77	0.37	1417

Jharsuguda

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January		8.2	8.2	1	140	0.28	0.124	2200

February	2008	7.6	8.7	1	148	0.28	0.188	3500
March		7.6	7.5	1.4	165.7	0.448	0.157	2800
April		7.2	15.6	1.9	155	ND	0.126	1700
May		7.1	8.5	1.8	163.2	0.56	0.62	2100
June		6.9	7.2	0.9	113.3	0.56	0.178	2800
July		8	6.9	0.8	75	1.74	2.334	4300
August		7.8	6.7	2.4	86	0.62	0.39	2800
September		7.5	7.6	0.9	101	0.84	0.18	2100
October		7.8	8.1	1.6	138	0.78	0.364	1700
November		7.8	8.3	0.8	149	1.008	0.132	2400
December		8.05	8	0.7	157	0.58	0.25	2800
Minimum			6.9	6.7	0.7	75	0.28	0.12
Maximum		8.2	15.6	2.4	165.7	1.74	2.33	4300
Average		7.6	8.4	1.3	133	0.70	0.42	2600

Brajrajnagar U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.7	8.2	0.6	146	0.28	0.165	1100
February		7.2	7.5	1.1	155	0.28	0.193	1700
March		7.7	7.4	1.1	161	0.784	0.091	1300
April		7.4	8.2	1.2	161	1.12	0.171	1500
May		7.8	8.5	2.2	160.3	0.84	0.724	1700
June		6.91	7.3	1.3	129.1	0.84	0.604	1500

July	2008	7.5	7.4	1.2	85	1.57	3.026	2100
August		7.8	7.3	1	89	0.78	0.98	1700
September		7.5	7.5	0.6	113	0.78	0.19	1400
October		7.9	7.8	1.3	148	0.67	1.057	1200
November		7.9	7.6	1.2	163	1.12	0.126	1400
December		8.1	7.8	0.8	167	0.58	0.147	1400
Minimum		6.9	7.3	0.6	85	0.28	0.09	1100
Maximum	8.1	8.5	2.2	167	1.57	3.03	2100	
Average	7.6	7.7	1.1	140	0.80	0.62	1500	

Brajrajnagar D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.8	8.1	1.2	160	0.56	0.388	1700
February		8	7.4	0.8	173	0.28	0.226	2800
March		7.9	7.8	1.2	162	0.728	1.512	2100
April		7.1	7.6	1.4	184	0.84	0.25	2100
May		8.1	8.1	2.3	160.7	1.12	2.357	2400
June		6.81	6.8	1.5	137.4	1.4	0.606	1700
July		7.8	7	2	77	1.392	2.819	3500
August		7.8	6.7	1.2	133	0.67	0.4	2200
September		8.1	7.9	1.2	114	1.06	0.2	1700
October		8	7.6	1.3	154	0.78	4.656	1800
November		7.4	7.2	1.8	180	1.12	0.132	1700

December		8.2	8.1	1.2	164	0.928	0.193	1700
Minimum		6.8	6.7	0.8	77	0.28	0.13	1700
Maximum		8.2	8.1	2.3	184	1.40	4.66	3500
Average		7.8	7.5	1.4	150	0.91	1.14	2117

Hirakud

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	8.1	7.1	1	195	0.56	0.258	2100
April		7.5	9	1.6	204	1.12	0.289	1700
July		7.8	7.2	0.6	176	1.16	1.005	2200
October		7.9	7.9	1.5	127	0.78	0.169	1100
Minimum		7.5	7.1	0.6	127	0.56	0.17	1100
Maximum		8.1	9.0	1.6	204	1.16	1.01	2200
Average		7.8	7.8	1.2	176	0.91	0.43	1775

Sambalpur U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	8.2	8	1.2	157	0.56	0.894	1700
February		7.7	8.3	1.2	180	0.56	0.598	2200
March		7.8	8.8	2.1	195.5	1.12	0.652	1700
April		7.4	8.4	2	189	0.56	0.401	1500
May		8	8.4	1.8	186.1	0.84	0.1	1700
June		7.7	6.5	0.9	174	0.56	0.254	2200

July	2000	8	7.8	0.8	166	1.51	1.161	3500
August		7.9	8.5	0.7	131	0.89	0.1	2200
September		6.9	7.3	0.4	92	0.89	0.1	1700
October		7.6	7.7	1.5	113	0.7	0.049	1500
November		8	8.4	1.8	135	1.23	0.059	1700
December		7.3	7.9	1.2	154	0.93	0.313	2200
Minimum		6.9	6.5	0.4	92	0.56	0.05	1500
Maximum	8.2	8.8	2.1	196	1.51	1.16	3500	
Average	7.7	8.0	1.3	156	0.86	0.39	1983	

Sambalpur D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.9	7.7	2.8	210	0.56	1.609	43000
February		7.5	7.8	2.1	221	0.84	0.813	43000
March		8	6.2	3	277	1.34	1.793	92000
April		7.3	11.3	3.8	310	0.45	0.172	92000
May		7.6	7.7	3.4	208	1.12	0.596	92000
June		7.9	6.2	4	239	1.12	0.865	54000
July		7.5	4.8	3.2	225	0.696	1.871	160000
August		8.1	6.7	1.4	138	2.85	0.2	92000
September		6.8	7	0.6	130	1.01	1.13	160000
October		7.9	7.2	2.8	121	0.84	0.391	43000
November		7.7	7.6	2	163	1.01	0.479	160000

December		8	7	3.7	161	0.93	0.631	92000
Minimum		6.8	4.8	0.6	121	0.45	0.17	43000
Maximum		8.1	11.3	4.0	310	2.85	1.87	160000
Average		7.7	7.3	2.7	200	1.06	0.88	93583

Sonepur U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.3	7.5	0.8	151	0.28	0.825	1700
April		7.6	9	1.4	208	0.33	0.155	1400
July		7.8	6.8	0.8	151	0.812	0.76	1700
October		8.2	8.4	1.1	162	0.67	0.22	1400
Minimum		7.3	6.8	0.8	151	0.28	0.16	1400
Maximum		8.2	9.0	1.4	208	0.81	0.83	1700
Average		7.7	7.9	1.0	168	0.52	0.49	1550

Sonepur D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.4	7.2	1.4	188	0.28	0.125	2200
April		7.9	16.1	1.9	246	1.4	0.483	1700
July		8	6.8	1.4	211	0.752	2.285	2800
October		7.4	8	1.9	170	1.08	0.563	2200
Minimum		7.4	6.8	1.4	170	0.28	0.13	1700
Maximum		8.0	16.1	1.9	246	1.40	2.29	2800

Average	7.7	9.5	1.7	204	0.88	0.86	2225
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Tikarapada

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	8.4	8.1	1	167	0.28	0.181	2400
April		7.6	9.4	1.4	470	0.89	0.923	2800
July		7.6	6.9	1	213	0.696	1.181	2400
October		7.9	7.4	0.8	174	0.78	0.811	1700
Minimum		7.6	6.9	0.8	167	0.28	0.18	1700
Maximum		8.4	9.4	1.4	470	0.89	1.18	2800
Average		7.9	8.0	1.1	256	0.66	0.77	2325

Narasinghpur

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.9	8.2	0.4	167	0.28	0.451	940
April		7.7	7.6	2.2	245	0.78	0.559	1100
July		7.7	6.7	2.1	132	0.58	1.802	1200
October		7.8	8.9	1.2	154	0.89	0.772	840
Minimum		7.7	6.7	0.4	132	0.28	0.45	840
Maximum		7.9	8.9	2.2	245	0.89	1.80	1200
Average		7.8	7.9	1.5	175	0.63	0.90	1020

Cuttack U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	8.3	8.2	1	150	0.84	0.332	1400
February		7.7	8.2	0.9	178	0.56	0.287	2200
March		8	8.1	1	186.4	0.67	0.069	1700
April		6.9	9	2.1	212	0.73	1.06	1500
May		7.5	8.3	2.1	169.8	0.56	0.1	1400
June		7.8	8.2	1	169.8	1.40	0.21	1200
July		8.1	7.6	1.6	169	1.74	0.193	1200
August		7.8	6.7	1.8	131	0.67	0.12	940
September		7.4	6.3	0.9	141	0.95	0.58	1200
October		8	8.4	1.2	154	0.89	0.037	1100
November		6.7	7.8	0.8	175	1.01	0.308	1400
December		7.6	8.6	1.4	152	0.35	0.078	1700
Minimum		6.7	6.3	0.8	131	0.35	0.04	940
Maximum		8.3	9.0	2.1	212	1.74	1.06	2200
Average		7.7	8.0	1.3	166	0.86	0.28	1412

Cuttack D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January		7.9	7.8	1.8	181	0.56	0.718	9400
February		7.8	7.6	2.1	188	1.12	0.346	4700
March		7.6	7.3	2.1	187	1.01	0.194	6300

April	2008	8.1	8.1	2.6	210	0.67	1.35	11000
May		7.3	7.2	4.6	218	1.12	1.448	12000
June		8.02	7.7	2.5	172.5	1.84	0.648	15000
July		8.2	8.2	2	171	1.276	0.395	21000
August		8	6.9	2.2	143	0.89	0.2	160000
September		7.7	6.8	1	217	1.23	1.14	14000
October		8.1	8.5	2	152	0.45	0.344	28000
November		8.2	7.2	1.5	182	0.90	0.356	17000
December		7.4	8	2	167	0.70	0.105	21000
Minimum			7.3	6.8	1.0	143	0.45	0.11
Maximum		8.2	8.5	4.6	218	1.84	1.45	160000
Average		7.9	7.6	2.2	182	0.98	0.60	26617

Kathajodi D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.9	7.6	4.4	373	0.56	2.24	160000
February		7.6	7	4	196	1.12	0.53	160000
March		7.8	8.2	5.4	189.4	1.50	0.263	>160000
April		7.4	5.4	4.8	375	4.5	7.433	160000
May		8.12	7.9	6.4	340	1.12	4.879	160000
June		7.7	7.8	4.1	195.3	1.04	0.927	160000
July		8	7.5	2.4	185	1.74	0.228	92000
August		8.1	6.5	2.6	187	0.78	2.27	160000

September	6.9	5.8	3.2	139	1.29	0.1	92000
October	8.3	7.2	2.9	236	1.06	1.528	54000
November	8.1	6.9	2.7	213	1.23	3.058	160000
December	8.3	7.3	3.9	203	1.34	0.377	5400
Minimum	6.9	5.4	2.4	139	0.56	0.10	5400
Maximum	8.3	8.2	6.4	375	4.50	7.43	160000
Average	7.9	7.1	3.9	236	1.44	1.99	123945

Kuakhai U/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.6	7.9	1	156	0.56	0.46	1400
February		7.6	8.5	1.5	166	0.28	0.166	1700
March		8.1	9.4	1	165.8	0.67	0.11	1300
April		8.3	7.8	1.4	186	0.33	0.461	1100
May		7.9	4.1	1.4	170.1	0.84	0.562	1200
June		8.12	8.9	0.8	186.7	0.56	0.366	1700
July		8.1	6.9	1.8	140	0.672	0.171	2200
August		7.9	7.8	2	137	0.67	1.18	1100
September		8.2	7.2	2	133	0.45	0.28	1500
October		7.8	7.2	1.2	159	0.78	0.317	1300
November		7.8	8.1	1.5	175	1.20	0.174	1100
December		8.1	7.9	1.9	184	0.35	0.34	1500
Minimum		7.6	4.1	0.8	133	0.28	0.11	1100

Maximum	8.3	9.4	2.0	187	1.20	1.18	2200
Average	8.0	7.6	1.5	163	0.61	0.38	1425

Kuakhai D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	8.2	7.3	3.6	251	0.56	2.91	22000
February		7.5	6.9	3.1	267	0.56	3.589	14000
March		7.7	6.2	4.6	251	0.70	0.19	9400
April		8	3.7	3.7	270	0.62	4.352	14000
May		7.68	7.8	4.6	239	1.12	1.246	1400
June		7.19	6.4	3	99.8	0.84	2.549	9400
July		7.7	5.2	2.8	142	0.812	0.064	14000
August		8	6.1	3.2	150	1.34	0.14	4700
September		7.3	5.6	2.6	145	0.78	1	21000
October		8	7.4	2.5	216	0.56	0.417	15000
November		7.1	6.4	2.7	242	1.12	2.015	17000
December		6.9	7.7	3.7	323	1.10	4.531	12000
Minimum		6.9	3.7	2.5	100	0.56	0.06	1400
Maximum		8.2	7.8	4.6	323	1.34	4.53	22000
Average		7.6	6.4	3.3	216	0.84	1.92	12825

Choudwar at Birupa D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
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January	2008	7.7	8.2	0.4	154	0.28	0.398	2200
April		7.5	7.5	2	221	1.23	0.261	3500
July		7.53	7.5	1.8	170	1.218	0.253	2100
October		7.8	7.9	1.1	150	0.67	0.606	3500
Minimum		7.5	7.5	0.4	150.0	0.28	0.25	2100
Maximum		7.8	8.2	2.0	221.0	1.23	0.61	3500
Average		7.6	7.8	1.3	173.8	0.85	0.38	2825

Paradeep D/S

Month	Year	pH	DO (mg/l)	BOD (mg/l)	Cond. mS/cm	NH4-N (mg/l)	Nitrate-N (mg/l)	TC (MPN/100 ml)
January	2008	7.5	7.3	1.4	13870	0.56	1.588	2200
April		7.5	6.5	1	33500	1.12	0.909	2400
July		8.1	6.9	1.4	10020	1.62	0.264	2200
October		7.6	7.4	1.6	13500	1.12	0.072	4700
Minimum		7.5	6.5	1.0	10020	0.56	0.07	2200
Maximum		8.1	7.4	1.6	33500	1.62	1.59	4700
Average		7.7	7.0	1.4	17723	1.11	0.71	2875

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FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
1100	--	--	--	3.9	11	3.1	68	4
940				5.8				
790				8.2				
940				3.4	15	8	64	4
1100				8.6				
940								
1100				17.06	478	362	14	ND
940				8.4				
1100				3.2				
940				6	13	7.5	72	ND
940								
790				6.1				
790	--	0.0	0	3.2	11	0.00	14.00	4
1100	--	0	0	17.06	478	0.00	72.00	4
968	--	#DIV/0!	#DIV/0!	7.1	129	#DIV/0!	54.50	4

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
1300	--	--	--	3.9	15	7.5	76	4

35000				18.2				
22000	5.0	0.3		6.5				
160000	5.8	0.6		25.5				
56417	5.3	0.4		18.9				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
1100	--	--	--	3.9	2	8	108	16
1100				8.5	38	14	96	8
1400				15.1	148	345	50	ND
790				6	28	18.5	80	4
790	--	--	--	4				
1400	--	--	--	15				
1098	--	--	--	8				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
1500	--	--	--	11.7	29	16.8	54	6
1400				13.3	11	2	104	8
1700				22.7	112	412	80	ND
1700				10	63	19.1	84	ND
1400	--	--	--	10				
1700	--	--	--	23				

1575	--	--	--	14				
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FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
1300	--	--	--	7.8	16	2.7	80	ND
1700				11.6	72	40	98	6
1300				11.4	130	315	64	ND
1200				6	26	9.5	96	ND
1200	--	--	--	6				
1700	--	--	--	12				
1375	--	--	--	9				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
700	--	--	--	7.8	10	6.6	84	12
790				11.4	16	4	94	6
700				18.2	330	437	72	ND
310				6.5	24	7.4	80	ND
310	--	--	--	7				
790	--	--	--	18				
625	--	--	--	11				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
790	--	--	--	5.9	16	12.1	72	4
1400				7.7				
1100				8				
940				7.4	18	8	86	6
1100				14.4				
940								
700				12.7	41	280	50	ND
700				12.4				
630				10.5				
790				6.5	67	15.2	76	ND
940								
1100				10.1				
630	0.0	0.0		5.9				
1400	0.0	0.0		14.4				
928	#DIV/0!	#DIV/0!		9.6				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
3300	--	--	--	9.9	98	21.4	76	ND
3300				17.7				
3300				12.05				

7900				14.8	23	11	88	4
9400				23.4				
12000								
14000				19.5	41	59.6	48	ND
24000				16.6				
7900				12.2				
17000	5	0.48	C	13	77	18.1	78	ND
11000								
12000				14.1				
3300	5.0	0.5		9.9				
24000	5.0	0.5		23.4				
10425	5.0	0.5		15.3				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
92000	5.33	0.45	C	27.7	135	20.8	102	6
54000				23.8				
92000				24.1				
160000	4.5	0.38	C	33.3	23	11	122	12
160000				25.2				
54000								
35000				11.4	58	235	64	6
54000				17.8				

35000				19.5				
35000	5.7	0.38	C	20.3	109	25.4	92	4
43000								
24000				19.2				
24000	4.5	0.38		11.4				
160000	5.7	0.45		33.3				
69833	5.2	0.40		22.2				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
940	--	--	--	4.9	12	3.1	74	8
790				7.7				
790				6.02				
700				11.1	20	6	84	6
940				7.2				
1100								
1700				18.15	26	295	60	ND
790				8.9				
840				13				
790				9.7	11	6.9	74	ND
790								
940				10.1				
700	--	--	--	4.9				

1700	--	--	--	18.2				
926	--	--	--	9.7				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
13000	--	--	--	20	17	9.7	68	ND
7900				15.4				
7000				14.06				
7900				25.9	107	58	86	4
1100				14.3				
7000								
7900				21.78	160	330	48	ND
3900				14.3				
12000				16.2				
9400				12.7	60	26.5	78	ND
11000								
7000				18.2				
1100	--	--	--	12.7				
13000	--	--	--	25.9				
7925	--	--	--	17.3				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
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1300	4.4	0.44	C	10	12	7.9	84	4
2200	5.2	0.46		12.9	72	20	86	4
1200				9.5	79	242.5	62	ND
1700				8	29	11.4	74	ND
1200	4.4	0.4		8.0				
2200	5.2	0.5		12.9				
1600	4.8	0.5		10.1				

FC (MPN/ 100 ml)	SI	DI	Class	COD (mg/l)	TSS (mg/l)	Turbidity , NTU	T. Alk., mg/l	P. Alk., mg/l
940	--	--	--	53.5	238	32.8	90	6
1300				77.7	272	84	110	18
1400				17.1	129	69.5	50	ND
3400				18	54	17.8	76	ND
940	--	--	--	17				
3400	--	--	--	78				
1760	--	--	--	42				

Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
10.7	5.88	44	30	14	1.8	8.3	0.024	0.027
3	33.3	48	36	12	1.6	11.6	ND	0.021
8	5.88	28	14	14	20.6	4.9	0.092	0.017
15	3.92	60	40	20	3.4	9.2	0.033	0.003
3	--	28.0	14	0	1.6	4.90	0.02	0.003
15	--	60	40	0	20.6	11.60	0.09	0.027
9	--	45.0	30.0	#DIV/0!	7	8.50	0.05	0

Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
9.7	6.44	56	38	18	2.5	8.6	0.026	0.051

4	6.95	52	36	16	1.6	11	ND	0.01
6	9.24	28	12	16	7.8	3.4	0.054	0.01
13	3.36	58	36	22	2.8	8.6	0.228	ND

	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ --P, mg/l	Boron, mg/l
10.7	3.92	60	40	20	2.7	9.2	0.02	0.055
3	23.6	52	36	16	2.1	16.6	0.015	0.017

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Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
13.6	3.2	60	48	12	12.8	7.9	0.038	0.058
11	5.5	76	44	32	8	8.5	ND	0.02
14	5.98	76	48	28	9.4	8.7	0.024	0.02
8	2.24	56	36	20	6.4	5.2	0.063	0.024

Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
12.6	9.2	72	50	22	0.75	7.3	0.972	0.099
4	28.9	76	52	24	5.8	8.7	ND	0.093

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Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
36.9	10.6	66	46	20	12.1	21.3	0.355	0.021
16	5.3	88	60	28	9.7	13.6	0.138	0.025

23	3.36	56	36	20	13.1	14.6	0.125	0.006
14	1.4	78	52	26	3.4	8.7	0.144	0.038

Chloride, mg/l	Total Kjeldahl N, mg/l	Hardness CaCO ₃ , mg/l	Ca as CaCO ₃ , mg/l	Mg as CaCO ₃ , mg/l	Sulphate, mg/l	Sodium, mg/l	PO ₄ ³⁻ -P, mg/l	Boron, mg/l
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Potassium, mg/l	Flouride, mg/l	Iron Total, mg/l	Nitrite-N, mg/l	TDS, mg/l	TFS, mg/l	Cadmium	Copper	Lead
1	0.261	0.533	0.003					
3	0.273	911.2	0.006	96	69	1.4	3.6	6.3
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2	0.25	1243.8		41	40	2.5	4.4	21.2
1.9	0.243	241.2	ND	86	62	1.2	4.8	26.9
1	0.24	0.5	0.003	41	40	1.20	3.60	6.3
3	0.27	0.533	0.006	96	69	2.50	4.80	26.9
2	0.257	0.5	0.0	74.3	57	1.70	4.27	18

Potassium, mg/l	Flouride, mg/l	Iron Total, mg/l	Nitrite-N, mg/l	TDS, mg/l	TFS, mg/l	Cadmium	Copper	Lead
1.1	0.266	0.518	0.002					

Potassium, mg/l	Fluoride, mg/l	Iron Total, mg/l	Nitrite-N, mg/l	TDS, mg/l	TFS, mg/l	Cadmium	Copper	Lead
5.2	0.313	0.533	0.005					
3.4	0.248	234	0.086	170	140	0.8	19.3	12.9
	--							
4.6	0.251	12.5		102	82	1.3	3.3	4.9
3.6	0.35	548.7	0.002	138	112	1.7	5.7	21.6

Potassium, mg/l	Fluoride, mg/l	Iron Total, mg/l	Nitrite-N, mg/l	TDS, mg/l	TFS, mg/l	Cadmium	Copper	Lead
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
87	13.7	8.9	0.2	16.4
86	BDL	12	BDL	14
25	BDL	11.7	BDL	24
25	--	8.9	0.2	14
87	--	12	0.2	24
66	--	10.9	0.2	18.1

Chromium Total	Nickel	Zinc	Mercury	Cyanide

98	18.1	46.3	0.2	24.5
98	BDL	12.6	BDL	24
35	BDL	28	BDL	25

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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85.7	13.1	7	0.3	25.6
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112	BDL	15.5	BDL	22
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14	BDL	11	BDL	29
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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5.4	12.9	7.3	0.5	25.4
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128	BDL	9.3	BDL	28
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26	BDL	12.9	0.5	31
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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51.8	16.6	9.2		11.6
67	1.7	12.4	BDL	14
45	BDL	12	BDL	14

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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37.5	13.8	4.6	0.2	23.4
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89	1.3	12.5	BDL	25
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48	BDL	14	0.4	17
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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37.5	17.1	19.1	0.3	24.8
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112	1.4	22.4	BDL	18
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48	BDL	12	BDL	24
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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73.2	12.7	51.3	0.1	34.8
68	BDL	11.4	BDL	15
32	1.7	8	BDL	15

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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42.8	12.6	53.4	0.2	35.4
78	BDL	15.6	BDL	29
35	1.3	12.4	BDL	18

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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26.8	17.1	7.9		16.5
98	1.1	11.7	BDL	14
35	BDL	12.5	BDL	17

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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16.4	28.3	50		16.8
45	4.4	8.9	BDL	18
34	BDL	22.4	BDL	17

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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15.8	6.2	16	0.1	17.8
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67	6.3	12.5	BDL	21
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21	1.1	14.9	BDL	14
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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25.7	9.3	151.3	0.2	25.4
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45	BDL	12.9	BDL	16
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27	4.4	15.6	0.2	16
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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34.5	8.6	50.2	0.2	19.8
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47	BDL	13.3	BDL	29
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32	5	9.8	0.4	24
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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21.4	30.2	36.1		23.4
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23	1.8	15.6	BDL	25
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12	2	15.6	BDL	25
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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25.4	31.4	101.3		26.7
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34	2.4	2.5	BDL	18
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25	4	14.8	BDL	32
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Chromium Total	Nickel	Zinc	Mercury	Cyanide
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21.4	41.8	11.6		21.4
39	12.5	5.9	BDL	28
27	2	15	BDL	42

Chromium Total	Nickel	Zinc	Mercury	Cyanide
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56.8	29.7	17.8	0.3	24.5
42	BDL	9.6	BDL	17
18	8.7	47	BDL	5