

नेपाल सरकार
शहरी विकास मन्त्रालय
अधिकार सम्पन्न बागमती सभ्यता एकीकृत विकास समिति
गुहेश्वरी फाँट, काठमाण्डौ ।

बागमती नदी तथा यसका सहायक नदीका विभिन्न स्थानमा पानीको नमूना लिई यस समितिको प्रयोगशालामा परीक्षण गर्दा तपसिलमा उल्लेख गरिएका गुणस्तर रहेको जानकारीको लागि प्रकाशित गरिएको छ ।

River water quality analysis report Jeth 2082

Bagmati River

Sampling date	Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
2082.02.19 (02.06.2025)	Sundarimal	8.88	7	16	32	8.2	5	20	60 x10 ¹	0.15
	Gokarna	8.02	167	214	200	5.8	36	68	12 x10 ⁴	0.42
	Jorpati	7.70	128	162	244	1.5	69	130	55 x10 ⁴	0.56
	Guheswori	7.60	25	40	174	4.7	51	86	20 x10 ⁴	0.48
	Aryaghat	7.57	20	32	162	3.2	48	90	50 x10 ³	0.34
2082.02.21 (04.06.2025)	Minbhavan	7.43	86	124	268	0.7	158	270	39 x10 ⁵	1.36
	Manohara and Bagmati Confluence	7.52	99	128	310	0.0	252	372	56 x10 ⁵	1.68
	Thapathali	7.50	92	101	324	0.0	188	300	77 x10 ⁵	1.54
	Bagmati and Bishnumati confluence	7.49	130	108	298	0.0	190	338	68 x10 ⁵	1.42
	Sundarighat	7.61	129	152	316	0.0	250	390	52 x10 ⁵	1.82
	Chovar	7.54	112	164	354	0.0	260	384	63 x10 ⁵	2.02
Generally acceptable limits		6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l

Dhobhikhola

Sampling date: 2082.02.23 (06.06.2025)

Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
Chapali	7.86	70	62	78	6.8	21	44	17 x10 ²	0.36
Yakatabasti	7.42	55	88	288	5.6	62	110	48 x10 ⁴	0.87
Gopikrishna	7.64	364	428	458	0.0	424	614	89 x10 ⁵	3.68
Ratopul	7.59	241	290	410	0.0	464	696	96 x10 ⁵	3.24
Buddhanagar	7.54	110	176	388	0.0	390	590	49 x10 ⁵	2.64
Dhobikhola and Bagmati confluence	7.42	101	89	322	0.0	324	518	42 x10 ⁵	2.14
Generally acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l

Bishnumati

Sampling date: 2082.02.25 (08.06.2025)

Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
Budhanilkantha	8.10	15	28	89	6.4	15	36	22 x10 ²	0.28
Tokha	7.56	190	216	478	0.0	435	674	51 x10 ⁵	3.72
Mahadev khola	7.34	386	464	520	0.0	389	755	45x10 ⁵	3.86
Mahadev khola and Bishnumati confluence	7.74	220	262	448	0.0	279	477	30 x10 ⁵	3.06
Khusibu	7.51	210	194	464	0.0	300	510	56 x10 ⁵	2.78
Teku	7.42	200	234	450	0.0	327	580	78 x10 ⁵	3.36
Generally acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l

Nakkhu

Sampling date: 2082.02.27 (10.06.2025)

Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
Near asphalt plant	8.12	145	202	189	6.1	10	23	67 x10 ¹	0.28
Kantipur colony	8.04	235	282	212	5.9	14	30	58 x10 ¹	0.32
Ranibu bridge	7.88	118	168	156	5.1	35	75	28x10 ²	0.54
Confluence of Bagmati and Nakkhu	7.45	150	210	302	0.0	375	566	78x10 ⁴	2.88
Generally acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l

Tukucha

Sampling date: 2082.02.21 (04.06.2025)

Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
Putalisadak	7.34	143	202	414	0.0	176	364	69 x10 ⁵	1.96
Kalmochan ghat	7.45	141	176	378	0.0	200	322	45 x10 ⁵	2.12
Tukucha and Bagmati confluene	7.51	113	132	310	0.0	160	275	36 x10 ⁵	1.44
Generally acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l

Hanumante

Sampling date: 2082.02.29 (12.06.2025)

Sampling site	pH	Turbidity (NTU)	TSS mg/l	TDS mg/l	DO mg/l	BOD ₅ mg/l	COD _{cr} mg/l	Fecal coliform C.F.U/100 ml	Total Phosphate mg/l
Gonsal	8.10	84	68	126	6.7	11	28	28x10 ²	0.22
Bramayani ghat	7.87	118	122	164	4.2	13	32	17x10 ²	0.21
Madhu khola	7.64	129	172	214	3.1	41	74	76x10 ³	0.32
Bira khola	7.51	162	233	334	0.0	161	291	29x10 ⁵	1.38
Chuping ghat	7.34	164	210	366	0.0	157	234	32x10 ⁵	1.56
Kasan khola – Hanumante confluence	7.50	106	152	287	0.0	100	184	34x10 ⁵	1.62
Ghattekholā –Hanumante confluence	7.34	157	144	328	0.0	83	168	23x10 ⁵	1.56
Godavari khola+Hanumante confluence	7.62	146	180	360	0.0	98	174	27x10 ⁵	2.11
Manohara +Hanumante confluence	7.36	304	354	414	0.0	110	192	42x10 ⁵	2.34
Generally acceptable limits	6.5-8.5	<10 NTU	<50 mg/l	<1000mg/l	≥5 mg/l	≤3 mg/l	≤ 25mg/l	<200 CFU/100 ml (U.S EPA)	< 0.1 mg/l