

Quality of Water of Polluted River stretches in Punjab for the month of July, 2022

Satluj : Roop Nagar to Harike Bridge : Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond μ s/Cm	T.Coli MPN/100ml	F. Coli MPN/100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
1	Ropar Head-Works	1019	08.07.2022	SW 210	ZO Lab LDH	7.4	8.0	BDL	247	1700	700	BDL	0.29	0.15	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	08.07.2022	SW 211	ZO Lab LDH	7.8	8.0	BDL	229	2100	790	BDL	0.17	0.28	C	S
3	River Satluj U/S Buddha Nallah	1690	13.07.2022	SW 213	ZO Lab LDH	7.7	6.3	BDL	272	3200	1300	BDL	0.38	0.35	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	13.07.2022	SW 215	ZO Lab LDH	7.5	2.1	10	403	8,40,000	4,60,000	0.052	1.46	0.31	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.07.2022	SW 217	ZO Lab LDH	7.6	4.1	4.0	352	1,20,000	46,000	0.035	0.79	0.19	D	U
6	River Satluj at D/s East Bein	1381	15.07.2022	SW 218	ZO Lab LDH	7.4	3.9	4.2	380	4,30,000	1,20,000	0.027	0.87	0.30	E	U
7	River Satluj at Harike	1022	15.07.2022	SW 219	ZO Lab LDH	7.4	5.4	1.2	297	2200	780	BDL	0.46	0.26	C	S

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	COD mg/l	Turb NTU	TSS mg/l	TDS mg/l	FDS mg/l	Cl mg/l	SO ₄ mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Alkn mg/l	P.Alkn mg/l	AmnN mg/l	NO ₃ -N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	08.07.2022	SW 210	ZO Lab LDH	BDL	16	26	143	125	10	8	116	32	8.7	72	BDL	BDL	1.9	BDL	BDL	0.23	7.2	2.5
2	River Satluj D/S of Rishab- Paper Mills	1293	08.07.2022	SW 211	ZO Lab LDH	BDL	32	55	133	117	9	7	104	27.2	8.7	70	BDL	BDL	1.7	BDL	BDL	0.25	4.1	1.1
3	River Satluj U/S Buddha Nallah	1690	13.07.2022	SW 213	ZO Lab LDH	BDL	110	160	164	141	8	9	108	28.8	8.7	98	BDL	BDL	2.4	BDL	0.22	0.31	9.2	2.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	13.07.2022	SW 215	ZO Lab LDH	47	130	210	279	221	46	27	142	38.4	11.2	138	BDL	2.6	3.4	3.6	1.32	0.39	40	5.2
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.07.2022	SW 217	ZO Lab LDH	20	75	133	216	184	26	19	134	37.6	9.7	98	BDL	1.4	2.4	2.0	0.87	0.25	21	3.3
6	River Satluj at D/s East Bein	1381	15.07.2022	SW 218	ZO Lab LDH	21	80	152	232	193	27	24	132	36.8	9.7	106	BDL	1.8	2.6	2.5	1.02	0.26	23	3.9
7	River Satluj at Harike	1022	15.07.2022	SW 219	ZO Lab LDH	7	120	180	182	162	21	16	126	34.4	9.7	114	BDL	BDL	2.2	BDL	0.17	0.25	12	3.5

- Note. 1. BDL means Below Method Detection Limit**
2. DBU means Designated Best Use (Class-A,B,C,D & E)
3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)
4. U/s means Upstream , D/s means Downstream

Quality of Water of Polluted River stretches in Punjab for the month of July, 2022
Ghaggar: Mubarkpur to Sardulgarh: Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond µs/Cm	T.Coli MPN/ 100ml	F. Coli MPN/ 100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	18/7/22	SW 445	H/o Lab Patiala	7.7	6.4	8	385	17000	2100	0.36	1.52	0.28	D	U
2	Ghaggar at Bhankarpur	1295	18/7/22	SW 446	H/o Lab Patiala	7.5	4.7	12	472	21000	2600	0.25	1.35	0.39	D	U
3	Ghaggar at Chattbir	1698	18/7/22	SW 447	H/o Lab Patiala	7.6	4.1	13	489	22000	2600	0.32	1.32	0.42	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	18/7/22	SW 448	H/o Lab Patiala	7.6	4.2	10	417	21000	2200	0.32	1.50	0.38	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	18/7/22	SW 449	H/o Lab Patiala	7.7	4.0	11	437	21000	2300	0.38	1.48	0.43	D	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	18/7/22	SW 451	H/o Lab Patiala	7.7	4.4	10	429	22000	2700	0.38	1.46	0.40	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	18/7/22	SW 452	H/o Lab Patiala	7.8	4.0	12	458	24000	3300	0.46	1.45	0.43	D	U
8	Ghaggar at Rattanheri	1473	12/7/2022	SW 414	H/o Lab Patiala	7.8	4.1	11	479	24000	3400	0.47	1.47	0.43	D	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/7/2022	SW 415	H/o Lab Patiala	7.8	4.2	10	462	24000	3300	0.46	13.19	0.40	D	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/7/2022	SW 416	H/o Lab Patiala	7.9	4.0	12	490	28000	3800	0.61	1.53	0.45	D	U
11	Ghaggar at Khanauri	1024	12/7/2022	SW 419	H/o Lab Patiala	7.6	4.2	12	499	28000	3400	0.34	1.45	0.44	D	U
12	Ghaggar at Moonak	1703	12/7/2022	SW 421	H/o Lab Patiala	7.7	4.1	13	515	28000	3900	0.41	1.48	0.49	D	U
13	Ghaggar at U/s Sardulgarh	1705	8/7/22	SW 364	H/o Lab Patiala	7.7	5.7	9	412	21000	2200	0.38	1.55	0.31	D	U
14	Ghaggar at D/s Sardulgarh	1704	8/7/22	SW 365	H/o Lab Patiala	7.6	5.1	10	435	22000	2600	0.32	1.56	0.40	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	18/7/22	SW 445	H/o Lab Patiala	38	510	478	248	212	25	10	95	23	9	178	BDL	11.9	0.7	16.7	11.9	1.0	34	14
2	Ghaggar at Bhankarpur	1295	18/7/22	SW 446	H/o Lab Patiala	62	500	492	307	262	40	11	151	39	13	196	BDL	12.6	0.8	17.6	12.6	1.0	38	17
3	Ghaggar at Chattbir	1698	18/7/22	SW 447	H/o Lab Patiala	65	560	490	317	269	42	12	158	40	14	202	BDL	12.9	0.9	18.1	12.9	1.1	38	18
4	Ghaggar at U/s Jharmal Nadi	1702	18/7/22	SW 448	H/o Lab Patiala	48	480	483	271	230	26	10	104	25	10	195	BDL	12.6	0.8	17.6	12.6	1.0	35	15
5	Ghaggar at D/s Jharmal Nadi	1701	18/7/22	SW 449	H/o Lab Patiala	53	490	487	287	245	28	11	118	29	11	200	BDL	12.8	0.8	17.9	12.8	1.0	37	16
6	Ghaggar at U/s Dhakanshu Nallah	1699	18/7/22	SW 451	H/o Lab Patiala	51	480	465	258	218	29	10	109	27	10	198	BDL	12.7	0.7	17.8	12.7	1.1	35	16
7	Ghaggar at D/s Dhakanshu Nallah	1700	18/7/22	SW 452	H/o Lab Patiala	56	490	479	299	255	33	11	129	32	12	205	BDL	13.0	0.9	18.2	13.0	1.2	38	17
8	Ghaggar at Rattanheri	1473	12/7/2022	SW 414	H/o Lab Patiala	55	470	462	310	264	34	12	133	35	11	211	BDL	13.3	0.9	18.6	13.3	1.2	39	19
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/7/2022	SW 415	H/o Lab Patiala	52	480	467	304	261	32	11	124	33	10	208	BDL	13.2	0.9	18.5	13.2	1.1	37	18
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/7/2022	SW 416	H/o Lab Patiala	58	480	474	319	272	35	13	142	37	12	217	BDL	13.5	0.9	18.9	13.5	1.3	42	21
11	Ghaggar at Khanauri	1024	12/7/2022	SW 419	H/o Lab Patiala	56	460	464	323	276	36	14	144	38	12	215	BDL	13.4	0.8	18.8	13.4	1.2	40	20
12	Ghaggar at Moonak	1703	12/7/2022	SW 421	H/o Lab Patiala	59	470	472	332	283	40	15	161	41	14	223	BDL	13.6	0.8	19.0	13.6	1.3	43	22
13	Ghaggar at U/s Sardulgarh	1705	8/7/22	SW 364	H/o Lab Patiala	42	390	278	267	229	25	10	97	24	9	203	BDL	12.5	0.7	16.8	12.5	0.7	35	15
14	Ghaggar at D/s Sardulgarh	1704	8/7/22	SW 365	H/o Lab Patiala	47	410	315	282	242	28	10	106	26	10	207	BDL	12.8	0.8	17.9	12.8	0.9	37	16

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