

Quality of Water of Polluted River stretches in Punjab for the month of August, 2021
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	13/8/21	SW 2164	ZO Lab LDH	7.9	6.7	BDL	218	2300	780	BDL	0.13	0.26	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	13/8/21	SW 2165	ZO Lab LDH	7.7	5.9	BDL	282	1300	780	BDL	0.24	0.30	C	S
3	River Satluj U/S Buddha Nallah	1690	17/8/21	SW 2167	ZO Lab LDH	7.4	5.3	1.4	292	3900	1700	0.015	0.33	0.45	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17/8/21	SW 2169	ZO Lab LDH	7.2	BDL	40	655	84,00,000	33,00,000	0.075	1.08	0.49	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17/8/21	SW 2171	ZO Lab LDH	7.2	BDL	15	556	4,30,000	1,30,000	0.040	0.90	0.36	E	U
6	River Satluj at D/s East Bein	1381	17/8/21	SW 2172	ZO Lab LDH	7.4	BDL	19	897	4,90,000	2,30,000	0.123	1.35	0.40	E	U
7	River Satluj at Harike	1022	17/8/21	SW 2173	ZO Lab LDH	7.6	6.5	2.1	285	3400	1100	BDL	0.41	0.31	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.Alk _n mg/l	P.Alk _n mg/l	AmnN mg/l	NO ₃ -N mg/l	TKN mg/l	PO ₄ -P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	13/8/21	SW 2164	ZO Lab Ldh	BDL	80	145	121	102	7	8	112	28	10.2	87	BDL	BDL	2.1	BDL	BDL	0.22	3.2	2.1
2	River Satluj D/S of Rishab- Paper Mills	1293	13/8/21	SW 2165	ZO Lab Ldh	BDL	110	185	167	135	14	12	112	28.8	9.7	114	BDL	BDL	2.3	BDL	BDL	0.24	5.9	3.7
3	River Satluj U/S Buddha Nallah	1690	17/8/21	SW 2167	ZO Lab Ldh	8	70	102	179	145	16	25	126	31.2	11.7	103	BDL	1.0	2.7	1.7	0.46	0.37	8.4	3.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17/8/21	SW 2169	ZO Lab LDH	182	90	122	393	282	83	36	212	50.4	20.9	220	BDL	7.5	3.2	13.5	5.4	0.41	36	7.2
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17/8/21	SW 2171	ZO Lab LDH	74	75	110	318	234	56	32	158	36.8	16.0	134	BDL	4.0	2.6	6.4	4.8	0.40	26	9.2
6	River Satluj at D/s East Bein	1381	17/8/21	SW 2172	ZO Lab LDH	98	140	228	545	391	81	27	230	55.2	22.4	380	BDL	8.2	3.0	15.4	5.8	0.46	47	17.8
7	River Satluj at Harike	1022	17/8/21	SW 2173	ZO Lab LDH	11	110	172	178	145	33	21	104	23.2	11.2	108	BDL	BDL	2.2	BDL	1.22	0.32	9.7	2.9

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 August, 2021
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 μ s/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	9/8/21	SW 4939	H/o Lab Patiala	7.7	6.8	7	390	15000	1700	0.25	1.66	0.26	D	U
2	Ghaggar at Bhankarpur	1295	9/8/21	SW 4940	H/o Lab Patiala	7.5	3.8	13	502	21000	2700	0.21	1.94	0.39	E	U
3	Ghaggar at Chattbir	1698	9/8/21	SW 4941	H/o Lab Patiala	7.6	4.0	13	491	22000	3200	0.29	1.89	0.42	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	9/8/21	SW 4942	H/o Lab Patiala	7.4	4.1	11	452	21000	2600	0.17	1.91	0.30	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	9/8/21	SW 4943	H/o Lab Patiala	7.5	3.6	14	529	24000	3400	0.25	2.05	0.46	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	9/8/21	SW 4945	H/o Lab Patiala	7.6	4.2	12	505	21000	2600	0.32	1.70	0.30	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	9/8/21	SW 4946	H/o Lab Patiala	7.7	3.4	15	593	24000	3400	0.46	2.00	0.43	E	U
8	Ghaggar at Rattanheri	1473	12/8/21	SW 4974	H/o Lab Patiala	7.1	3.1	13	610	24000	3400	0.01	2.35	0.62	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/8/21	SW 4975	H/o Lab Patiala	7.4	4.0	12	598	24000	3300	0.23	2.35	0.58	D	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/8/21	SW 4976	H/o Lab Patiala	7.3	3.0	15	704	24000	4000	0.14	2.11	0.64	E	U
11	Ghaggar at Khanauri	1024	12/8/21	SW 4978	H/o Lab Patiala	7.4	3.3	11	547	28000	2700	0.21	2.10	0.57	E	U
12	Ghaggar at Moonak	1703	12/8/21	SW 4980	H/o Lab Patiala	7.5	3.1	14	639	21000	3900	0.32	2.23	0.64	E	U
13	Ghaggar at U/s Sardulgarh	1705	16/8/21	SW 5011	H/o Lab Patiala	7.8	5.4	6	361	15000	1700	0.29	1.50	0.27	D	U
14	Ghaggar at D/s Sardulgarh	1704	16/8/21	SW 5012	H/o Lab Patiala	7.9	5.0	9	436	17000	2500	0.42	1.61	0.31	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	9/8/21	SW 4939	H/o Lab Patiala	37	410	391	253	216	26	7	89	24	7	187	BDL	8.4	0.9	11.8	1.1	1.0	36	10
2	Ghaggar at Bhankarpur	1295	9/8/21	SW 4940	H/o Lab Patiala	65	380	397	327	288	38	12	142	37	12	204	BDL	10.7	1.0	15.0	1.4	1.1	53	22
3	Ghaggar at Chattbir	1698	9/8/21	SW 4941	H/o Lab Patiala	63	325	349	318	271	36	13	138	34	13	201	BDL	11.4	1.0	15.9	1.2	1.0	51	20
4	Ghaggar at U/s Jharmal Nadi	1702	9/8/21	SW 4942	H/o Lab Patiala	57	290	214	293	249	31	9	110	29	9	198	BDL	11.1	1.0	15.5	1.1	1.0	46	19
5	Ghaggar at D/s Jharmal Nadi	1701	9/8/21	SW 4943	H/o Lab Patiala	68	330	248	343	292	40	12	147	39	12	208	BDL	12.3	1.2	17.2	1.7	1.2	57	26
6	Ghaggar at U/s Dhakanshu Nallah	1699	9/8/21	SW 4945	H/o Lab Patiala	62	345	273	304	258	33	10	116	30	10	210	BDL	12.9	1.0	18.1	1.4	1.0	42	20
7	Ghaggar at D/s Dhakanshu Nallah	1700	9/8/21	SW 4946	H/o Lab Patiala	71	365	297	384	326	49	16	176	44	16	225	BDL	15.2	1.2	21.3	1.7	1.3	61	30
8	Ghaggar at Rattanheri	1473	12/8/21	SW 4974	H/o Lab Patiala	67	230	241	395	337	47	14	163	42	14	229	BDL	15.6	1.1	21.8	1.8	1.2	69	39
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/8/21	SW 4975	H/o Lab Patiala	64	225	237	385	329	45	13	153	40	13	226	BDL	15.1	1.2	21.1	1.7	1.2	67	37
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/8/21	SW 4976	H/o Lab Patiala	73	235	247	455	387	58	22	234	57	22	237	BDL	13.5	1.4	18.9	2.6	1.3	74	46
11	Ghaggar at Khanauri	1024	12/8/21	SW 4978	H/o Lab Patiala	59	110	161	354	301	39	14	151	37	14	224	BDL	14.1	1.0	19.7	1.5	1.0	59	27
12	Ghaggar at Moonak	1703	12/8/21	SW 4980	H/o Lab Patiala	69	135	177	414	353	47	19	198	48	19	236	BDL	16.2	1.3	22.7	1.9	1.3	72	36
13	Ghaggar at U/s Sardulgarh	1705	16/8/21	SW 5011	H/o Lab Patiala	28	25	47	239	199	24	7	82	21	7	173	BDL	8.4	1.0	11.8	1.0	0.9	31	11
14	Ghaggar at D/s Sardulgarh	1704	16/8/21	SW 5012	H/o Lab Patiala	47	30	53	284	241	31	10	111	28	10	199	BDL	9.3	1.1	13.0	1.1	1.0	39	14

Note. 1. BDL means Below Method Detection Limit
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