

Quality of Water of Polluted River stretches in Punjab for the month of August, 2020

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	10.08.20	SW 1534	ZO Lab Ldh	7.5	8.4	<1	257	930	400	BDL	0.13	0.09	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	10.08.20	SW 1535	ZO Lab Ldh	7.3	8.2	<1	335	1100	330	BDL	0.15	0.11	C	S
3	River Satluj U/S Buddha Nallah	1690	11.08.20	SW 1537	ZO Lab Ldh	7.4	7.7	<1	271	3800	930	BDL	0.10	0.14	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.08.20	SW 1539	ZO Lab Ldh	6.9	2.9	7.8	389	9,20,000	1,70,000	BDL	0.44	0.17	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	13.08.20	SW 1541	ZO Lab Ldh	7.3	4.1	2.3	399	1,70,000	22,000	0.021	0.53	0.20	D	U
6	River Satluj at D/s East Bein	1381	13.08.20	SW 1542	ZO Lab Ldh	7.5	4.2	2.6	326	1,70,000	49,000	0.036	0.31	0.11	D	U
7	River Satluj at Harike	1022	13.08.20	SW 1543	ZO Lab Ldh	7.4	5.1	1.7	264	4900	1400	0.021	0.27	0.13	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	10.08.20	SW 1534	ZO Lab Ldh	<5	95	57	149	127	11	8	120	28.8	11.7	92	BDL	BDL	1.3	BDL	BDL	0.17	3.3	1.2
2	River Satluj D/S of Rishab- Paper Mills	1293	10.08.20	SW 1535	ZO Lab Ldh	<5	65	41	199	172	11	8	128	29.6	13.1	136	BDL	BDL	1.2	BDL	BDL	0.16	3.9	1.3
3	River Satluj U/S Buddha Nallah	1690	11.08.20	SW 1537	ZO Lab Ldh	<5	110	135	150	125	10	7	134	30.4	14.1	78	BDL	BDL	1.5	1.2	0.08	0.25	2.6	1.2
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.08.20	SW 1539	ZO Lab Ldh	38	120	168	234	190	33	18	162	39.2	15.6	104	BDL	5.4	1.5	7.4	0.34	0.31	13	7.7
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	13.08.20	SW 1541	ZO Lab Ldh	16	105	134	241	197	44	23	146	32.8	15.6	120	BDL	2.1	1.3	2.6	0.20	0.28	14.6	5.9
6	River Satluj at D/s East Bein	1381	13.08.20	SW 1542	ZO Lab Ldh	19	150	145	197	159	23	18	142	32	15.1	110	BDL	1.8	1.3	2.4	0.22	0.24	8.4	5.2
7	River Satluj at Harike	1022	13.08.20	SW 1543	ZO Lab Ldh	12	140	122	162	136	17	15	110	24.8	11.7	104	BDL	1.4	1.2	1.8	0.17	0.20	6.4	3.7

- 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, 2020

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	4/8/2020	SW 2671	H/o Lab Patiala	7.2	6.3	9	542	17000	2600	0.14	1.74	0.47	D	U
2	Ghaggar at Bhankarpur	1295	4/8/2020	SW 2672	H/o Lab Patiala	7.0	4.1	23	802	24000	3300	BDL	2.07	0.53	D	U
3	Ghaggar at Chattbir	1698	4/8/2020	SW 2673	H/o Lab Patiala	7.0	4.0	13	663	22000	2700	BDL	2.09	0.56	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	4/8/2020	SW 2674	H/o Lab Patiala	7.1	4.2	15	694	22000	2600	0.01	2.10	0.42	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	4/8/2020	SW 2675	H/o Lab Patiala	7.1	3.2	19	924	28000	3800	0.01	2.60	0.53	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	4/8/2020	SW 2677	H/o Lab Patiala	7.2	4.2	11	714	21000	2500	0.11	3.00	0.63	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	4/8/2020	SW 2678	H/o Lab Patiala	7.2	4.0	13	804	24000	3400	0.15	3.22	0.70	D	U
8	Ghaggar at Rattanheri	1473	11/8/2020	SW 2696	H/o Lab Patiala	7.4	3.3	13	690	24000	2700	0.24	2.11	0.73	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/8/2020	SW 2697	H/o Lab Patiala	7.3	3.4	12	670	24000	2500	0.16	2.13	0.71	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/8/2020	SW 2698	H/o Lab Patiala	7.8	3.1	18	792	28000	3400	0.46	2.35	0.79	E	U
11	Ghaggar at Khanauri	1024	11/8/2020	SW 2701	H/o Lab Patiala	7.5	3.0	12	652	24000	2700	0.28	2.16	0.77	E	U
12	Ghaggar at Moonak	1703	11/8/2020	SW 2703	H/o Lab Patiala	7.4	3.4	13	705	28000	3100	0.22	2.24	0.75	E	U
13	Ghaggar at U/s Sardulgarh	1705	14/8/2020	SW 2704	H/o Lab Patiala	7.8	5.1	9	520	17000	1700	0.35	1.34	0.65	D	U
14	Ghaggar at D/s Sardulgarh	1704	14/8/2020	SW 2705	H/o Lab Patiala	8.0	4.7	11	589	21000	2200	0.51	1.55	0.69	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	4/8/2020	SW 2671	H/o Lab Patiala	47	700	372	352	299	41	17	138	37	11	226	BDL	13.5	1.1	18.9	0.74	1.0	47	27
2	Ghaggar at Bhankarpur	1295	4/8/2020	SW 2672	H/o Lab Patiala	114	270	223	481	409	71	27	277	68	26	239	BDL	16.2	1.3	22.7	1.94	1.1	79	30
3	Ghaggar at Chattbir	1698	4/8/2020	SW 2673	H/o Lab Patiala	65	120	112	431	366	69	20	214	49	22	231	BDL	13.2	1.0	18.5	1.2	0.9	70	26
4	Ghaggar at U/s Jharmal Nadi	1702	4/8/2020	SW 2674	H/o Lab Patiala	78	50	59	451	383	71	24	235	56	23	235	BDL	11.8	0.9	16.5	1.1	1.0	74	25
5	Ghaggar at D/s Jharmal Nadi	1701	4/8/2020	SW 2675	H/o Lab Patiala	94	80	102	601	511	96	32	351	78	38	279	BDL	13.2	1.2	18.5	1.7	1.0	112	38
6	Ghaggar at U/s Dhakanshu Nallah	1699	4/8/2020	SW 2677	H/o Lab Patiala	58	60	85	464	394	64	19	202	51	18	243	BDL	10.9	1.0	15.3	1.2	0.8	98	31
7	Ghaggar at D/s Dhakanshu Nallah	1700	4/8/2020	SW 2678	H/o Lab Patiala	64	90	113	522	444	72	24	234	59	21	258	BDL	14.8	1.3	20.7	1.4	1.1	113	40
8	Ghaggar at Rattanheri	1473	11/8/2020	SW 2696	H/o Lab Patiala	68	120	110	448	381	67	21	215	53	20	253	BDL	15.9	1.0	22.3	1.9	1.0	71	27
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/8/2020	SW 2697	H/o Lab Patiala	62	100	104	436	371	64	22	199	50	18	250	BDL	15.7	1.0	22.0	2.0	1.0	69	25
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/8/2020	SW 2698	H/o Lab Patiala	94	150	129	515	438	76	25	260	66	23	269	BDL	13.2	1.2	18.5	2.4	1.1	87	38
11	Ghaggar at Khanauri	1024	11/8/2020	SW 2701	H/o Lab Patiala	62	70	82	424	360	54	17	210	51	20	249	BDL	14.2	1.0	19.9	1.4	0.9	72	23
12	Ghaggar at Moonak	1703	11/8/2020	SW 2703	H/o Lab Patiala	65	75	90	458	389	60	23	237	55	24	256	BDL	14.6	1.1	20.4	1.5	1.0	79	26
13	Ghaggar at U/s Sardulgarh	1705	14/8/2020	SW 2704	H/o Lab Patiala	47	25	31	338	287	46	14	137	35	12	231	BDL	9.9	0.5	13.9	0.9	0.7	36	20
14	Ghaggar at D/s Sardulgarh	1704	14/8/2020	SW 2705	H/o Lab Patiala	56	30	39	383	326	53	17	174	43	16	240	BDL	10.3	0.6	14.4	1.0	0.8	47	26

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