

Quality of Water of Polluted River stretches in Punjab for the month of January 2019

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	8/1/19	SW 235	ZO Lab Ldh	7.28	8.2	<1	268	1200	370	0.013	0.499	0.10	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	8/1/19	SW 234	ZO Lab Ldh	7.15	8.1	1.1	448	1400	450	0.014	0.959	0.31	C	S
3	River Satluj U/S Buddha Nallah	1690	10/1/19	SW 244	ZO Lab Ldh	7.25	7.7	1.2	442	3300	1400	0.018	1.11	0.19	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/1/19	SW 246	ZO Lab Ldh	7.06	2.2	48	935	9,40,000	3,20,000	0.006	3.38	0.25	E	N
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/1/19	SW 261	ZO Lab Ldh	6.94	4.4	14	644	1,70,000	78,000	BDL	2.98	0.24	D	N
6	River Satluj at D/s East Bein	1381	21/1/19	SW 162	ZO Lab Jal.	7.4	1.0	14	494	35000	22000	0.147	1.66	0.14	E	N
7	River Satluj at Harike	1022	21/1/19	SW 163	ZO Lab Jal.	7.6	5.2	2.8	408	11000	7000	0.110	1.365	0.17	D	N

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	NO3-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	8/1/19	SW 235	ZO Lab Ldh	8.0	9.3	10	167	145	13	12	128	40	6.8	102	BDL	1.3	0.48	2.1	0.11	0.23	13	2.5
2	River Satluj D/S of Rishab- Paper Mills	1293	8/1/19	SW 234	ZO Lab Ldh	12	10	16	271	235	30	15	198	59.2	12	154	BDL	1.4	0.59	2.6	0.13	0.24	31	7.5
3	River Satluj U/S Buddha Nallah	1690	10/1/19	SW 244	ZO Lab Ldh	14	14	18	269	230	34	19	156	46.4	9.7	152	BDL	1.8	0.92	3.0	0.26	0.23	32	13
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	10/1/19	SW 246	ZO Lab Ldh	164	77	76	608	518	64	38	246	78.4	12.2	372	BDL	12.6	1.21	15	1.3	0.39	122	31
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12/1/19	SW 261	ZO Lab Ldh	60	30	32	419	356	42	26	196	62.4	9.7	210	BDL	6.0	0.69	8.8	0.54	0.26	96	26
6	River Satluj at D/s East Bein	1381	21/1/19	SW 162	ZO Lab Jal.	48	72	32	336	235	48	44	144	45	8	190	BDL	9.8	1.5	16.0	0.50	0.22	46	8.7
7	River Satluj at Harike	1022	21/1/19	SW 163	ZO Lab Jal.	22	36	28	253	198	34	40	120	37	6	150	BDL	4.4	1.1	7.8	0.32	0.13	34	6.4

- 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, N means Not Satisfactory)
4. U/s means Upstream , D/s means Downstream

Quality of Water of Polluted River stretches in Punjab for the month of January 2019

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 Mubarkpur Rest House	1023	8/1/19	SW 973	H/o Lab Patiala	8.0	5.1	13	630	28000	4300	0.390	0.922	0.14	D	N
2	Ghaggar at Bhankarpur	1295	8/1/19	SW 974	H/o Lab Patiala	7.8	4.3	36	898	35000	8400	0.610	1.45	0.17	D	N
3	Ghaggar at Chattbir	1698	8/1/19	SW 975	H/o Lab Patiala	7.7	3.1	20	792	28000	7000	0.286	1.636	0.15	E	N
4	Ghaggar at U/s Jharmal Nadi	1702	8/1/19	SW 976	H/o Lab Patiala	7.8	3.5	14	795	24000	3400	0.350	1.866	0.12	E	N
5	Ghaggar at D/s Jharmal Nadi	1701	8/1/19	SW 977	H/o Lab Patiala	7.9	2.6	16	920	24000	4900	0.527	1.961	0.18	E	N
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/1/19	SW 979	H/o Lab Patiala	7.8	3.8	14	895	22000	2400	0.375	2.061	0.14	E	N
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/1/19	SW 980	H/o Lab Patiala	7.9	2.8	17	980	28000	3900	0.540	2.187	0.23	E	N
8	Ghaggar at Rattanheri	1473	16/1/19	SW 982	H/o Lab Patiala	8.0	3.2	23	995	28000	5800	0.740	2.918	0.19	E	N
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/1/19	SW 985	H/o Lab Patiala	8.0	4.2	18	990	22000	4000	0.710	2.699	0.11	D	N
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/1/19	SW 987	H/o Lab Patiala	8.0	2.7	33	1425	28000	6300	0.750	4.293	0.19	E	N
11	Ghaggar at Khanauri	1024	16/1/19	SW 983	H/o Lab Patiala	8.1	3.6	41	1125	28000	7000	1.02	2.899	0.23	E	N
12	Ghaggar at Moonak	1703	16/1/19	SW 984	H/o Lab Patiala	8.0	4.2	35	1030	24000	4100	0.720	2.997	0.22	D	N
13	Ghaggar at U/s Sardulgarh	1705	10/1/19	SW 1041	H/o Lab Patiala	7.5	BDL	60	1170	24000	4100	0.324	2.444	0.18	E	N
14	Ghaggar at D/s Sardulgarh	1704	10/1/19	SW 1042	H/o Lab Patiala	7.6	BDL	64	1285	35000	8400	0.465	2.258	0.22	E	N

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 P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarkpur Rest House	1023	8/1/19	SW 973	H/o Lab Patiala	68	772	996	410	349	34	15	305	97	15	257	BDL	7.8	0.69	10.9	0.38	0.15	37	5
2	Ghaggar at Bhankarpur	1295	8/1/19	SW 974	H/o Lab Patiala	180	400	802	584	496	77	28	326	97	30	431	BDL	17.40	0.94	24.3	2.39	0.17	64	17
3	Ghaggar at Chattbir	1698	8/1/19	SW 975	H/o Lab Patiala	112	750	720	513	436	62	21	271	97	7	381	BDL	9.52	0.98	13.3	1.22	0.16	62	12
4	Ghaggar at U/s Jharmal Nadi	1702	8/1/19	SW 976	H/o Lab Patiala	68	190	194	517	439	81	25	306	99	14	339	BDL	10.0	0.79	14.0	0.94	0.27	75	11
5	Ghaggar at D/s Jharmal Nadi	1701	8/1/19	SW 977	H/o Lab Patiala	77	270	195	598	508	104	27	349	114	15	377	BDL	11.7	0.85	16.4	1.21	0.30	84	15
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/1/19	SW 979	H/o Lab Patiala	70	50	62	582	495	106	22	265	89	10	406	BDL	10.7	0.72	15.0	1.0	0.21	77	18
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/1/19	SW 980	H/o Lab Patiala	82	70	95	637	541	124	29	305	101	13	418	BDL	12.0	0.86	16.8	1.80	0.24	88	16
8	Ghaggar at Rattanheri	1473	16/1/19	SW 982	H/o Lab Patiala	112	90	121	647	540	127	30	261	69	21	428	BDL	14.8	0.82	20.7	1.98	0.29	108	21
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/1/19	SW 985	H/o Lab Patiala	95	70	72	644	547	125	27	261	61	26	443	BDL	14.1	0.88	19.7	2.14	0.28	100	20
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/1/19	SW 987	H/o Lab Patiala	175	70	79	926	787	191	36	389	100	34	538	BDL	15.0	0.91	21.1	3.04	0.30	195	25
11	Ghaggar at Khanauri	1024	16/1/19	SW 983	H/o Lab Patiala	204	240	536	731	622	139	44	277	73	23	480	BDL	15.7	0.89	21.9	3.03	0.25	111	26
12	Ghaggar at Moonak	1703	16/1/19	SW 984	H/o Lab Patiala	176	200	532	670	569	120	42	275	60	21	468	BDL	14.4	0.87	20.2	1.44	0.23	106	23
13	Ghaggar at U/s Sardulgarh	1705	10/1/19	SW 1041	H/o Lab Patiala	295	40	67	761	646	135	38	354	106	22	484	BDL	16.2	0.93	22.7	1.95	0.36	106	55
14	Ghaggar at D/s Sardulgarh	1704	10/1/19	SW 1042	H/o Lab Patiala	318	65	80	835	710	147	43	431	117	34	522	BDL	18.6	0.96	26.0	2.15	0.41	108	57

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Kali Bein (Sultanpur Lodhi to Confluence to Beas) : Priority IV

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	Water quality as per DBU	Water Quality Index
1	Kali Bein into Beas	2913	21/1/19	SW 166	Z.O. Lab Jalandhar	7.5	6.0	5.0	310	3500	1700	0.036	0.130	0.26	C	S

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1	Kali Bein into Beas	2913	21/1/19	SW 166	Z.O. Lab Jalandhar	24	40	38	210	160	20	24	180	48	14	140	BDL	1.8	1.2	3.8	0.20	0.18	4	2.7

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Beas (along Mukerian) : Priority V

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	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/1/19	SW 178	Z.O. Lab Jalandhar	7.9	8.4	2.0	261	920	540	0.036	0.196	0.14	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	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	10/1/19	SW 178	Z.O. Lab Jalandhar	18	16.8	14	164	130	18	12	120	39	6	120	BDL	0.8	1.0	1.4	0.14	0.15	5	3.0

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