

Analysis results of Surface water monitoring under NWMP for the month of August, 2018

River Satluj

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.N mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
1	River Satluj at U/S Nangal	1017	20.8.18	136	ZO Lab Ldh	7.95	8.4	<1	238	220	37	0.030	0.37	0.20	B	S
2	River Satluj at D/S NFL	1380	20.8.18	138	ZO Lab Ldh	7.75	8.0	<1	284	390	92	0.028	1.60	0.23	B	S
3	River Sutej at 100m D/s PACL Nangal	2915	20.8.18	139	ZO Lab Ldh	7.60	8.0	<1	314	450	180	0.020	1.62	0.18	B	S
4	River Satluj at D/s Nangal	1018	20.8.18	137	ZO Lab Ldh	7.79	8.2	<1	260	310	45	0.021	0.46	0.26	B	S
5	River Satluj at Kiratpur Sahib	1814	21.8.18	141	ZO Lab Ldh	7.66	8.0	<1	364	810	360	0.018	0.75	0.28	C	S
6	Ropar Head-Works	1019	21.8.18	143	ZO Lab Ldh	7.68	8.4	<1	267	1000	200	0.030	0.61	0.26	C	S
7	River Satluj D/S of Rishab-Paper Mills	1293	21.8.18	144	ZO Lab Ldh	7.71	8.3	<1	313	1100	200	0.012	0.41	0.32	C	S
8	River Satluj U/S Buddha Nallah	1690	22.8.18	150	ZO Lab Ldh	7.61	7.2	<1	317	2100	400	0.020	0.53	0.22	C	S
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	22.8.18	152	ZO Lab Ldh	7.24	4.0	30	611	4,00,000	2,20,000	0.010	2.04	0.31	D	N
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	23.8.18	159	ZO Lab Ldh	7.43	7.0	10	393	63000	26000	0.024	2.33	0.20	D	N
11	River Satluj at D/s East Bein	1381	27.8.18	30	ZO Lab Jal.	7.5	4.0	5.2	556	28000	17000	0.144	4.14	BDL	D	N
12	River Satluj at Harike	1022	27.8.18	31	ZO Lab Jal.	7.7	5.9	3.2	399	17000	11000	0.126	1.97	BDL	D	N
13	Harike Lake D/S from canal	1382	27.8.18	32	ZO Lab Jal.	7.8	7.2	2.2	278	3500	1700	0.084	1.07	BDL	C	S
14	D/S Harike lake	1297	27.8.18	33	ZO Lab Jal.	7.6	7.3	2.0	284	3500	2200	0.070	1.03	0.20	C	S
15	U/S Hussainiwala H/W Ferozepur	1691	23.8.18	160	ZO Lab Ldh	7.68	7.8	<1	270	820	200	0.024	2.04	0.12	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	23.8.18	161	ZO Lab Ldh	7.61	7.6	<1	282	830	370	0.025	1.66	0.16	C	S

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

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River Satluj

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	Amn-N 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	River Satluj at U/S Nangal	1017	20.8.18	136	ZO Lab Ldh	<5	9	10	136	124	14	16	65	20	3.6	40	BDL	0.6	0.4	1.8	0.6	0.4	6.8	2.41
2	River Satluj at D/S NFL	1380	20.8.18	138	ZO Lab Ldh	<5	10	12	194	180	22	21	85	23.2	6.48	55	BDL	0.8	1.2	2.4	0.8	0.6	33.9	8.18
3	River Sutej at 100m D/s PACL Nangal	2915	20.8.18	139	ZO Lab Ldh	<5	12	13	213	200	20	21	65	19.2	4.08	50	BDL	0.8	1.4	2.8	1.0	0.4	30	7.68
4	River Satluj at D/s Nangal	1018	20.8.18	137	ZO Lab Ldh	<5	11	12	170	160	16	18	70	20	4.8	45	BDL	0.6	0.8	2.0	0.8	0.6	8.9	3.04
5	River Satluj at Kiratpur Sahib	1814	21.8.18	141	ZO Lab Ldh	5.3	11	13	255	240	28	26	75	20.8	5.52	75	BDL	0.6	1.0	1.8	0.6	0.4	14.98	3.96
6	Ropar Head-Works	1019	21.8.18	143	ZO Lab Ldh	<5	12	14	209	190	25	28	70	19.2	5.28	65	BDL	1.0	0.8	2.6	0.4	0.4	11.80	3.40
7	River Satluj D/S of Rishab- Paper Mills	1293	21.8.18	144	ZO Lab Ldh	5.3	13	19	258	234	30	22	80	23.2	5.28	75	BDL	0.4	1.0	2.0	0.4	0.6	8.49	2.97
8	River Satluj U/S Buddha Nallah	1690	22.8.18	150	ZO Lab Ldh	8.0	14	20	234	202	21	18	76	16	8.64	56	BDL	0.8	1.2	1.8	0.8	0.6	10.53	3.68
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	22.8.18	152	ZO Lab Ldh	124	30	56	387	320	72	54	112	25.6	11.52	70	BDL	1.0	4.0	2.2	2.0	1.0	49.39	12.68
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	23.8.18	159	ZO Lab Ldh	36	19	28	236	192	20	24	68	16	6.72	58	BDL	1.6	1.0	3.8	1.2	0.1	44	8
11	River Satluj at D/s East Bein	1381	27.8.18	30	ZO Lab Jal.	32	34	142	325	226	44	38	132	42	7	110	BDL	7.2	1.4	12.6	0.24	0.20	110	12.4
12	River Satluj at Harike	1022	27.8.18	31	ZO Lab Jal.	20	28	204	245	210	20	28	116	32	9	119	BDL	4.2	1.2	6.4	0.18	0.16	49	11.9
13	Harike Lake D/S from canal	1382	27.8.18	32	ZO Lab Jal.	16	38	224	190	146	18	22	104	38	2	121	BDL	2.4	1.4	3.6	0.16	0.14	25	5.6
14	D/S Harike lake	1297	27.8.18	33	ZO Lab Jal.	16	46	240	186	154	20	24	100	26	9	109	BDL	2.8	1.2	3.4	0.20	0.16	24	5.5
15	U/S Hussainiwala H/W Ferozepur	1691	23.8.18	160	ZO Lab Ldh	8.0	15	18	162	150	17	16	56	14.4	4.8	52	BDL	0.8	0.8	1.4	0.8	0.3	35	6
16	D/S Hussainiwala H/W Ferozepur	1692	23.8.18	161	ZO Lab Ldh	8.8	16	20	180	164	19	18	62	16	5.28	54	BDL	1.0	0.8	1.8	1.0	0.2	30	4

Note. 1.BDL means Below Method Detection Limit

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River Beas

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.N mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
17	River Beas at Talwara H/W	1693	21.8.18	13	ZO Lab Jal.	7.5	7.6	1.0	220	79	49	BDL	0.74	BDL	B	S
18	River Beas at U/S Pathankot	1694	21.8.18	15	ZO Lab Jal.	7.8	7.4	1.4	253	460	230	BDL	0.58	BDL	B	S
19	River Beas at D/S Pathankot	1695	21.8.18	16	ZO Lab Jal.	7.8	7.2	1.6	276	490	330	0.011	0.67	BDL	B	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	21.8.18	14	ZO Lab Jal.	7.4	7.6	1.4	293	170	110	BDL	0.67	BDL	B	S
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	21.8.18	17	ZO Lab Jal.	7.6	7.0	1.6	266	790	490	0.015	0.79	BDL	C	S
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	3.8.18	1	ZO Lab Jal.	7.5	7.1	1.4	259	700	460	0.010	0.99	BDL	C	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	3.8.18	2	ZO Lab Jal.	7.9	7.2	1.6	216	460	330	BDL	0.75	BDL	B	S
24	River Beas at U/s Goindwal	1696	3.8.18	3	ZO Lab Jal.	7.7	7.4	1.4	250	350	220	0.018	0.84	0.10	B	S
25	River Beas at D/s Goindwal	1012	3.8.18	4	ZO Lab Jal.	7.7	7.3	1.4	226	460	330	0.018	0.84	0.14	B	S
26	Beas at Harike	1697	27.8.18	29	ZO Lab Jal.	7.8	7.6	1.3	249	350	280	0.004	0.84	0.12	B	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	Amn-N mg/l	NO3-N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
17	River Beas at Talwara H/W	1693	21.8.18	13	ZO Lab Jal.	10	26	124	150	118	12	10	100	35	3	96	BDL	BDL	0.6	BDL	BDL	BDL	17	4.3
18	River Beas at U/S Pathankot	1694	21.8.18	15	ZO Lab Jal.	16	50	220	175	144	20	14	142	47	6	89	BDL	BDL	1.2	BDL	0.12	0.12	16	3.9
19	River Beas at D/S Pathankot	1695	21.8.18	16	ZO Lab Jal.	18	42	228	180	148	22	18	136	34	13	98	BDL	0.3	1.0	0.5	0.14	0.12	18	4.3
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	21.8.18	14	ZO Lab Jal.	12	32	148	190	158	16	12	124	33	10	109	BDL	BDL	0.8	BDL	BDL	0.10	17	4.2
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	21.8.18	17	ZO Lab Jal.	20	52	278	172	140	16	20	110	36	5	72	BDL	0.6	1.6	1.2	0.16	0.14	19	6.1
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	3.8.18	1	ZO Lab Jal.	14	48	284	174	146	18	22	104	36	3	96	BDL	0.5	1.6	1.0	0.14	0.16	23	5.0
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	3.8.18	2	ZO Lab Jal.	16	50	264	160	134	18	14	111	34	6	98	BDL	BDL	1.4	BDL	0.18	0.12	18	4.3
24	River Beas at U/s Goindwal	1696	3.8.18	3	ZO Lab Jal.	14	44	232	170	140	12	18	109	31	7	89	BDL	0.6	1.2	1.0	0.14	0.12	20	4.8
25	River Beas at D/s Goindwal	1012	3.8.18	4	ZO Lab Jal.	16	46	240	158	120	16	22	107	30	8	92	BDL	0.6	1.0	1.2	0.16	0.14	20	4.3
26	Beas at Harike	1697	27.8.18	29	ZO Lab Jal.	16	56	202	160	132	14	20	110	29	6	102	BDL	0.12	1.2	1.2	0.12	0.16	19	5.0

Note. 1. BDL means Below Method Detection Limit

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Analysis results of Surface water monitoring under NWMP for the month of August, 2018

River Ravi

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.N mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
27	Ravi at U/s of Madhopur H/W	1097	21.8.18	12	ZO Lab Jal.	7.6	7.9	BDL	202	79	49	BDL	0.56	BDL	B	S

S.N.	Point of Sample Collection	Code	DOR 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	Amn_N mg/l	NO3-N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
27	Ravi at U/s of Madhopur H/W	1097	21.8.18	12	ZO Lab Jal.	BDL	16	72	134	116	14	8	90	25	6	68	BDL	BDL	0.6	BDL	BDL	BDL	12	3.7

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Analysis results of Surface water monitoring under NWMP for the month of August, 2018

River Ghaggar

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.N mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
28	Ghaggar at Mubarikpur Rest House	1023	7.8.18	SW471	H/o Lab Patiala	7.9	4.2	7	453	15000	2200	0.072	0.81	0.22	D	N
29	Ghaggar at Bhankarpur	1295	7.8.18	SW 472	H/o Lab Patiala	7.5	3.7	12	551	28000	4000	0.058	0.93	0.33	E	N
30	Ghaggar at Chattbir	1698	7.8.18	SW 473	H/o Lab Patiala	7.2	2.6	10	595	21000	3300	0.040	1.05	0.31	E	N
31	Ghaggar at U/s Jharmal Nadi	1702	7.8.18	SW 474	H/o Lab Patiala	7.6	3.8	9	541	22000	3200	0.068	1.04	0.15	E	N
32	Ghaggar at D/s Jharmal Nadi	1701	7.8.18	SW 475	H/o Lab Patiala	7.9	3.2	20	1035	28000	3400	0.194	2.30	0.22	E	N
33	Ghaggar at U/s Dhakanshu Nallah	1699	7.8.18	SW 477	H/o Lab Patiala	7.9	3.2	13	585	17000	2100	0.302	1.56	0.25	E	N
34	Ghaggar at D/s Dhakanshu Nallah	1700	7.8.18	SW 478	H/o Lab Patiala	7.7	2.8	15	598	24000	3300	0.261	2.29	0.31	E	N
35	Ghaggar at Rattanheri	1473	16.8.18	SW 486	H/o Lab Patiala	7.1	1.2	47	607	43000	8400	0.003	1.53	0.22	E	N
36	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16.8.18	SW 489	H/o Lab Patiala	7.4	3.5	10	422	17000	2600	0.054	0.80	0.24	E	N
37	Ghaggar after mixing with Sagar Para drain (D/s Sagars para Drain)	4160	16.8.18	SW 491	H/o Lab Patiala	7.2	2.6	28	621	35000	4600	0.033	2.19	0.28	E	N
38	Ghaggar at Khanauri	1024	16.8.18	SW 487	H/o Lab Patiala	7.2	2.3	14	607	24000	4100	0.013	0.69	0.29	E	N
39	Ghaggar at Moonak	1703	16.8.18	SW 488	H/o Lab Patiala	6.6	3.3	12	418	22000	3100	BDL	0.88	0.25	E	N
40	Ghaggar at U/s Sardulgarh	1705	27.8.18	SW 535	H/o Lab Patiala	7.1	1.2	19	608	28000	5800	0.002	1.58	0.20	E	N
41	Ghaggar at D/s Sardulgarh	1704	27.8.18	SW 536	H/o Lab Patiala	7.3	1.0	24	617	35000	7000	0.042	1.64	0.23	E	N

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28	Ghaggar at Mubarikpur Rest House	1023	7.8.18	SW471	H/o Lab Patiala	34	560	576	305	268	24	20	210	72	7	215	BDL	1.6	0.31	2.7	0.12	0.41	27	6
29	Ghaggar at Bhankarpur	1295	7.8.18	SW 472	H/o Lab Patiala	52	600	540	380	327	29	28	269	80	17	273	BDL	2.9	0.41	4.2	0.25	0.43	35	9
30	Ghaggar at Chattbir	1698	7.8.18	SW 473	H/o Lab Patiala	42	650	622	387	321	51	36	234	74	12	219	BDL	4.0	0.46	5.6	0.33	0.37	37	11
31	Ghaggar at U/s Jharmal Nadi	1702	7.8.18	SW 474	H/o Lab Patiala	38	350	357	357	301	32	23	269	79	17	236	BDL	2.7	0.56	4.0	0.54	0.18	39	8
32	Ghaggar at D/s Jharmal Nadi	1701	7.8.18	SW 475	H/o Lab Patiala	80	330	302	661	530	146	41	321	108	13	290	BDL	4.3	0.65	6.4	0.33	0.15	95	47
33	Ghaggar at U/s Dhakanshu Nallah	1699	7.8.18	SW 477	H/o Lab Patiala	54	370	327	374	308	61	31	234	81	8	205	BDL	6.7	0.39	9.6	0.58	0.21	55	14
34	Ghaggar at D/s Dhakanshu Nallah	1700	7.8.18	SW 478	H/o Lab Patiala	64	500	333	407	326	59	34	194	69	5	219	BDL	8.7	0.42	12.6	0.47	0.24	73	17
35	Ghaggar at Rattanheri	1473	16.8.18	SW 486	H/o Lab Patiala	137	800	614	413	321	60	25	242	76	13	261	BDL	5.1	0.76	7.4	0.34	0.38	55	13
36	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16.8.18	SW 489	H/o Lab Patiala	48	850	782	296	254	34	18	234	79	9	178	BDL	3.6	0.48	5.6	0.21	0.17	28	7
37	Ghaggar after mixing with Sagar Para drain (D/s Sagars para Drain)	4160	16.8.18	SW 491	H/o Lab Patiala	97	800	660	434	368	48	23	246	84	9	253	BDL	3.3	0.53	5.4	0.30	0.23	79	24
38	Ghaggar at Khanauri	1024	16.8.18	SW 487	H/o Lab Patiala	57	800	812	282	236	42	17	234	65	17	170	BDL	1.3	0.60	2.8	0.45	0.21	24	5
39	Ghaggar at Moonak	1703	16.8.18	SW 488	H/o Lab Patiala	47	650	1336	292	248	44	19	218	73	9	174	BDL	3.8	0.42	5.4	0.28	0.19	30	8
40	Ghaggar at U/s Sardulgarh	1705	27.8.18	SW 535	H/o Lab Patiala	67	370	184	444	368	64	22	289	103	8	257	BDL	4.0	0.60	6.8	0.29	0.20	62	19
41	Ghaggar at D/s Sardulgarh	1704	27.8.18	SW 536	H/o Lab Patiala	83	250	58	451	376	48	36	277	97	9	265	BDL	4.2	0.66	7.4	0.95	0.23	63	22

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