

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

S. N.	Point of Sample Collection	Code	pH	Temp. (Air/Water)/°C	DO mg/l	Cond µs/Cm	TDS mg/l	FDS mg/l	COD mg/l	BOD mg/l	TSS mg/l	Turb NTU	T.Alk n mg/l	P.Alk n mg/l	TH mg/l	Ca mg/l	Mg mg/l	Cl mg/l	SO ₄ Mg/l	NO ₃ -N mg/l	F mg/l	PO ₄ as P mg/l	Amn N mg/l	TKN mg/l	T.Coli MPN/100ml	F.Coli MPN/100ml	Na mg/l	K mg/l	Boro n mg/l	S index	D index	WQI	Quality of water DBU
1	River Satluj, U/S Nangal	1017	8.04	35/20	8.0	250	148	141	4.0	BDL	12	4	46	BDL	50	12	4.9	20	12	0.4	0.2	0.4	0.8	1.4	320	110	24	2.6	BDL	-	-	S	B
2	River Satluj D/S NFL	1380	7.94	34/20	7.7	310	184	170	5.6	BDL	20	5	52	BDL	58	14.4	5.4	24	14	0.6	0.4	0.8	1.0	1.8	480	170	28	3.0	BDL	4.0	0.26	S	B
3	100m D/s PACL Nangal	2915	7.81	35/20	7.6	328	201	188	6.4	BDL	22	6	54	BDL	60	14.4	5.8	26	14	0.6	0.4	0.8	1.2	2.0	490	170	29	3.2	0.24	4.3	0.25	S	B
4	River Satluj D/s Nangal	1018	7.89	34/19	7.7	292	168	154	4.8	BDL	18	5	48	BDL	54	12.8	5.4	22	12	0.4	0.2	0.6	0.8	1.8	490	110	25	3.4	BDL	4.0	0.4	S	B
5	River Satluj at Kiratpur Sahib	1814	8.17	34/18	7.6	306	188	175	6.4	BDL	17	6	62	BDL	80	20.8	6.8	26	16	0.6	0.4	0.8	1.0	2.0	630	230	28	4.2	BDL	-	-	S	C
6	Ropar Head-Works	1019	8.02	29/19	7.8	314	196	184	5.6	BDL	14	5	56	BDL	68	16	6.8	28	16	0.4	0.3	0.6	1.0	2.0	1000	200	27	4.0	BDL	-	-	S	C
7	River Satluj D/S of Rishab-Paper Mills	1293	8.19	28/22	7.6	322	204	190	6.4	BDL	16	6	58	BDL	72	16	7.8	28	18	0.6	0.4	0.8	1.0	2.2	1100	200	29	4.8	BDL	-	-	S	C
8	River Satluj U/S Buddha Nallah	1690	8.16	35/30	7.0	548	384	360	14.4	BDL	14	10	86	BDL	110	25.6	11.2	42	22	1.4	0.4	1.0	1.2	2.0	3300	1700	54	7.2	0.17	-	-	S	C
9	Satluj at 100 mts D/s Budha Nallah confluence Ludhiana	1020	7.24	36/31	2.2	1522	1005	948	416	115	311	72	182	BDL	204	48	20.4	220	98	8.0	1.0	3.0	12	22	630000	230000	198	54	0.29	-	-	S	E
10	Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	7.57	27/26	3.0	1240	753	739	252	75	140	60	122	BDL	130	45.6	18.1	102	38	2.2	0.6	1.4	7.0	14	390000	170000	170	42	BDL	-	-	N	E
11	Satluj at D/s east Bein	1381	7.3	30/25	BDL	1012	592	450	105	30	84	20	210	BDL	172	62	4	165	65	1.6	0.16	0.20	18.8	26.2	54000	35000	51	4.6	0.42	-	-	N	E
12	Satluj at harike	1022	7.4	29/24	4.7	500	306	260	38	6.0	36	8	160	BDL	140	43	8	38	24	1.4	0.14	0.16	4.8	6.8	28000	22000	28	2.6	BDL	-	-	N	D
13	Harike Lake D/S from canal	1382	7.5	29/26	6.3	334	230	195	21	03	24	6	140	BDL	122	37	7	28	20	1.2	0.12	0.14	2.8	3.8	3500	1700	38	3.6	0.12	3.0	0.3	S	C
14	D/S Harike	1297	7.4	28/23	6.7	368	240	207	20	03	18	4	138	BDL	120	37	7	30	24	1.2	0.13	0.14	2.8	3.2	3500	2200	30	3.0	BDL	-	-	S	C
15	U/S Hussainiwala H/W Ferozepur	1691	7.81	29/28	7.2	480	245	236	12	BDL	20	13	60	BDL	72	19.2	5.88	30	22	0.6	0.3	1.0	1.2	2.0	1200	400	28	3.1	BDL	-	-	S	C
16	D/S Hussainiwala H/W Ferozepur	1692	7.75	30/28	7.0	463	240	229	16	BDL	23	18	68	BDL	80	20.8	6.86	32	20	0.8	0.4	1.0	1.0	2.2	1400	400	27	3.4	BDL	-	-	S	C

Note. 1. BDL means Below Method Detection Limit

2. WQI means Water Quality Index (S means Satisfactory, N means not Satisfactory).

3. DBU means Designated Best Use (Class-A,B,C,D & E)

4. Pesticides i.e. Alpha HCH, Beta HCH, Gama HCH, Anilophos, Chloropyrifos, 4,4' DDT, Endosulphan-1, Endosulphan-2, Dieldrin, Aldrin & Malathion were BDL.

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S.N.	Point of Sample Collection	Code	pH	Temp. (Air/Water) /°C	DO mg/l	Cond µs/C m	TDS mg/l	FDS mg/l	COD mg/l	BOD mg/l	TSS mg/l	Turb NTU	T.Al kn mg/l	P.Al kn mg/l	TH mg/l	Ca mg/l	Mg mg/l	Cl mg/l	SO ₄ Mg/l	NO ₃ -N mg/l	F mg/l	PO ₄ as P mg/l	AmnN mg/l	TKN mg/l	T.Col i MPN/100ml	FColi MPN/100ml	Na mg/l	K mg/l	B mg/l	S index	D index	WQI	Quality of water DBU
17	Beas at Talwara H/W	1693	7.5	22/16	7.9	198	140	124	BDL	BDL	BDL	2	76	BDL	96	29	5	16	10	0.7	0.10	BDL	BDL	BDL	79	33	16	2.7	BDL	5.8	0.53	S	B
18	Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	7.3	24/19	7.3	262	182	160	14	1.3	14	5	90	BDL	140	38	11	17	12	1.4	0.13	BDL	BDL	BDL	170	130	25	3.4	BDL	4.5	0.45	S	B
19	Beas 1 Km D/S effluent discharge point at Mukerian	1294	7.2	25/20	7.1	270	190	164	18	1.8	22	6	112	BDL	114	35	7	18	14	1.4	0.14	BDL	0.8	1.2	350	220	11	2.9	BDL	-	-	S	B
20	U/S Pathankot	1694	7.4	23/18	7.8	228	168	142	08	BDL	10	4	92	BDL	128	39	7	16	12	1.0	0.11	BDL	BDL	BDL	170	130	20	3.3	BDL	4.5	0.45	S	B
21	D/S Pathankot	1695	7.4	23/19	7.4	272	188	161	14	1.2	12	5	98	BDL	149	41	11	18	14	1.2	0.13	BDL	BDL	BDL	220	170	27	3.5	BDL	-	-	S	B
22	Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	7.5	27/24	7.2	272	196	168	16	1.4	16	5	102	BDL	118	34	8	12	14	0.8	0.12	0.10	0.5	1.0	220	110	40	3.8	BDL	3.5	0.3	S	B
23	U/s Goindwal	1696	7.4	28/22	7.4	268	178	162	14	1.2	12	4	108	BDL	116	31	9	11	14	1.0	0.10	0.12	BDL	BDL	170	110	29	2.6	0.11	4.0	0.4	S	B
24	D/s Goindwal	1012	7.2	28/23	7.1	278	188	163	14	1.4	18	7	110	BDL	128	33	11	10	12	1.4	0.12	0.16	BDL	BDL	170	130	34	3.2	0.16	3.5	0.3	S	B
25	Beas at Harike	1697	7.3	29/25	8.3	282	186	165	18	1.9	14	4	112	BDL	117	35	7	21	18	0.8	0.10	0.38	BDL	BDL	460	230	19	2.3	0.10	3.0	0.3	S	B
26	Ravi at U/s of Madhopur H/W	1097	7.4	24/18	7.7	180	124	108	BDL	BDL	BDL	2	64	BDL	96	31	8	10	08	0.7	BDL	BDL	BDL	BDL	70	46	14	3.8	BDL	4.5	0.45	S	B
27	Ghaggar at Mubarikpur Rest House	1023	7.3	35/28	4.2	1013	608	529	102	18	585	400	342	BDL	384	130	15	57	42	1.1	0.20	0.6	15.3	21.4	24000	4100	75	11	BDL	-	-	N	D
28	Ghaggar at Bhankarpur	1295	7.4	36/28	3.0	1349	823	675	123	24	354	210	433	BDL	442	158	11	122	62	1.8	0.29	1.2	19	26.6	28000	4700	105	18	BDL	-	-	N	E
29	Ghaggar at Chattbir	1698	7.1	35/27	3.2	1223	758	629	110	20	870	450	402	BDL	438	134	25	99	48	1.4	0.28	0.8	18	24	28000	5800	104	14	0.17	-	-	N	E
30	U/s Jharmal Nadi	1702	7.3	35/27	2.8	1320	792	642	122	23	1080	220	453	BDL	376	138	8.0	76	64	1.6	0.23	1.3	18.4	25.4	24000	3300	118	19	0.24	-	-	N	E
31	D/s Jharmal Nadi	1701	7.3	34/27	1.9	1478	902	713	156	28	832	450	457	BDL	422	149	12	123	90	2.2	0.25	1.9	22	28	28000	6300	126	24	0.25	-	-	N	E
32	U/s Dhakanshu Nallah	1699	7.2	32/24	4.2	1196	741	593	72	12	52	38	373	BDL	324	119	6	101	94	1.0	0.27	1.5	12.6	16	21000	2700	90	17	0.18	-	-	N	D
33	D/s Dhakanshu Nallah	1700	7.3	32/25	4.1	1303	847	660	76	13	60	40	447	BDL	376	123	17	115	108	1.3	0.29	1.7	14.8	18.6	24000	4100	113	26	0.22	-	-	N	D
34	Ghaggar at Rattanheri	1473	7.4	29/18	4.0	1260	807	645	103	19	50	55	426	BDL	308	103	12	113	126	1.4	0.35	1.1	18	24.6	22000	3200	111	27	BDL	-	-	N	D
35	Ghaggar at Khanauri	1024	7.6	30/19	1.0	1955	1330	1060	206	45	66	110	609	BDL	598	188	31	161	168	1.8	0.39	1.2	25.2	34.8	35000	11000	235	72	BDL	-	-	N	E
36	Ghaggar at Moonak	1703	7.7	31/19	1.3	1651	1090	894	137	28	47	35	567	BDL	348	104	21	152	128	1.3	0.42	0.9	22.6	27.6	28000	4900	215	40	0.19	-	-	N	E
37	U/s Sardulgarh	1705	8.1	36/28	1.5	1624	1072	887	112	22	63	20	546	BDL	374	130	12	156	140	1.2	0.4	1.0	18.6	23.6	15000	1700	191	27	0.26	-	-	N	E
38	D/s Sardulgarh	1704	7.8	37/27	1.3	1710	1150	906	118	24	78	25	598	BDL	386	138	10	164	148	1.2	0.59	1.1	19.5	24.8	22000	2600	222	33	0.30	-	-	N	E

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4. Pesticides i.e. Alpha HCH, Beta HCH, Gama HCH, Anilophos, Chloropyrifos, 4,4' DDT, Endosulphan-1, Endosulphan-2, Dieldrin, Aldrin & Malathion were BDL.

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S.N.	Point of Sample Collection	Code	Ni mg/l	Cu mg/l	Zn mg/l	Fe mg/l	T.cr mg/l	Pb mg/l	As mg/l	Hg mg/l	Cd mg/l
1	River Satluj, U/S Nangal (Nanagal H/W)	1017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	River Satluj D/S NFL	1380	BDL	BDL	BDL	0.090	BDL	BDL	BDL	BDL	BDL
3	100m D/s PACL Nangal	2915	BDL	BDL	BDL	0.098	BDL	BDL	BDL	BDL	BDL
4	River Satluj D/s Nangal	1018	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	River Satluj at Kiratpur Sahib	1814	BDL	BDL	BDL	0.32	BDL	BDL	BDL	BDL	BDL
6	Ropar Head-Works	1019	BDL	BDL	BDL	0.84	BDL	BDL	BDL	BDL	BDL
7	River Satluj D/S of Rishab- Paper Mills	1293	BDL	BDL	BDL	0.92	BDL	BDL	BDL	BDL	BDL
8	River Satluj U/S Buddha Nallah	1690	BDL	BDL	0.21	1.95	BDL	BDL	BDL	BDL	BDL
9	Satluj at 100 mts D/s Budha Nallah confluence Ludhiana	1020	0.50	0.36	1.72	18.42	0.62	BDL	BDL	BDL	BDL
10	Satluj at Boat Bridge, Dharamkot Nakodar Road (Sutlej D/s BNL)	1021	0.33	0.22	1.40	12.98	0.40	BDL	BDL	BDL	BDL
11	U/S Hussainiwala H/W Ferozepur	1691	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	D/S Hussainiwala H/W Ferozepur	1692	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	Beas at Talwara H/W	1693	BDL	BDL	0.14	1.48	BDL	BDL	BDL	BDL	BDL
14	Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	BDL	BDL	BDL	0.63	BDL	BDL	BDL	BDL	BDL
15	Beas 1 Km D/S effluent discharge point at Mukerian	1294	BDL	BDL	BDL	0.84	BDL	BDL	BDL	BDL	BDL
16	U/S Pathankot	1694	BDL	BDL	BDL	4.87	BDL	BDL	BDL	BDL	BDL
17	D/S Pathankot	1695	BDL	BDL	0.18	1.0	BDL	BDL	BDL	BDL	BDL
18	Beas at G.T.Road, under Bridge Near Kapurthalla (Pb)	1011	BDL	BDL	0.23	3.41	BDL	BDL	BDL	BDL	BDL
19	U/s Goindwal	1696	BDL	BDL	0.19	0.57	BDL	BDL	BDL	BDL	BDL
20	D/s Goindwal	1012	BDL	BDL	BDL	0.82	BDL	BDL	BDL	BDL	BDL
21	Beas at Harike	1697	BDL	BDL	BDL	0.66	BDL	BDL	BDL	BDL	BDL
22	Harike Lake D/S from canal	1382	BDL	BDL	BDL	0.44	BDL	BDL	BDL	BDL	BDL
23	D/S Harike	1297	BDL	BDL	BDL	0.99	BDL	BDL	BDL	BDL	BDL
24	Satluj at harike	1022	BDL	BDL	BDL	0.96	BDL	BDL	BDL	BDL	BDL
25	Satluj at D/s east Bein	1381	BDL	BDL	0.25	2.0	BDL	BDL	BDL	BDL	BDL
26	Ravi at U/s of Madhopur H/W	1097	BDL	BDL	0.16	4.21	BDL	BDL	BDL	BDL	BDL
27	Ghaggar at Mubarikpur Rest House	1023	0.10	BDL	0.69	24.7	BDL	BDL	BDL	BDL	BDL
28	Ghaggar at Bhankarpur	1295	0.14	BDL	0.74	26.7	BDL	BDL	BDL	BDL	BDL
29	Ghaggar at Chattbir	1698	BDL	BDL	0.37	17.3	BDL	BDL	BDL	BDL	BDL
30	U/s Jharmal Nadi	1702	BDL	BDL	0.70	18.1	BDL	BDL	BDL	BDL	BDL
31	D/s Jharmal Nadi	1701	0.13	BDL	0.50	30.6	BDL	BDL	BDL	BDL	BDL
32	U/s Dhakanshu Nallah	1699	BDL	BDL	0.15	1.67	BDL	BDL	BDL	BDL	BDL
33	D/s Dhakanshu Nallah	1700	BDL	BDL	0.16	3.2	BDL	BDL	BDL	BDL	BDL
34	Ghaggar at Rattanheri	1473	BDL	BDL	0.18	1.39	BDL	BDL	BDL	BDL	BDL
35	Ghaggar at Khanauri	1024	BDL	BDL	0.28	23.9	BDL	BDL	BDL	BDL	BDL
36	Ghaggar at Moonak	1703	BDL	BDL	0.14	1.23	BDL	BDL	BDL	BDL	BDL
37	U/s Sardulgarh	1705	BDL	BDL	0.13	1.18	BDL	BDL	BDL	BDL	BDL
38	D/s Sardulgarh	1704	BDL	BDL	0.22	1.72	BDL	BDL	BDL	BDL	BDL

Note: BDL means Below Method Detection limit.