

Analysis results of Surface water monitoring under NWMP for the month of April, 2019

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. mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
1	River Satluj at U/S Nangal	1017	24/4/19	SW 529	ZO Lab Ldh	7.19	9.2	<1	221	140	18	0.006	0.31	0.29	B	S
2	River Satluj at D/S NFL	1380	24/4/19	SW 530	ZO Lab Ldh	7.16	8.1	<1	265	240	78	0.006	0.55	0.25	B	S
3	River Sutej at 100m D/s PACL Nangal	2915	24/4/19	SW 531	ZO Lab Ldh	7.10	8.1	<1	298	250	68	BDL	0.47	0.23	B	S
4	River Satluj at D/s Nangal	1018	24/4/19	SW 532	ZO Lab Ldh	7.98	8.2	<1	330	390	92	0.050	0.46	0.24	B	S
5	River Satluj at Kiratpur Sahib	1814	24/4/19	SW 542	ZO Lab Ldh	7.79	9.1	<1	264	630	110	0.028	0.47	0.21	C	S
6	Ropar Head-Works	1019	26/4/19	SW 544	ZO Lab Ldh	7.79	9.0	<1	298	1400	450	0.042	0.61	0.22	C	S
7	River Satluj D/S of Rishab- Paper Mills	1293	26/4/19	SW 544	ZO Lab Ldh	7.65	8.2	<1	316	1400	400	0.054	0.25	0.19	C	S
8	River Satluj U/S Buddha Nallah	1690	23/4/19	SW 534	ZO Lab Ldh	7.76	7.0	3	418	4000	1400	0.077	1.78	0.38	C	S
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	23/4/19	SW 536	ZO Lab Ldh	7.08	1.6	90	1102	22,00,000	13,00,000	0.008	3.73	4.75	E	U
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	25/4/19	SW 538	ZO Lab Ldh	7.32	4.0	20	888	2,60,000	93000	0.072	3.70	0.88	D	U
11	River Satluj at D/s East Bein	1381	23/4/19	SW 353	ZO Lab Jal.	7.6	1.0	22	1230	54000	17000	0.353	5.02	0.33	E	U
12	River Satluj at Harike	1022	Sample could not be collected due to profuse growth of water hyacinth													
13	Harike Lake D/S from canal	1382	23/4/19	SW 354	ZO Lab Jal.	7.5	7.2	3.9	410	4600	2100	0.052	0.76	0.22	C	S
14	D/S Harike lake	1297	23/4/19	SW 355	ZO Lab Jal.	7.9	8.3	2.1	380	5800	2500	0.081	0.63	0.16	D	U
15	U/S Hussainiwala H/W Ferozepur	1691	24/4/19	SW 539	ZO Lab Ldh	7.92	8.4	<1	296	2200	400	0.036	0.51	0.36	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	24/4/19	SW 540	ZO Lab Ldh	7.40	8.2	<1	315	2300	450	0.015	0.41	0.26	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, U means Unsatisfactory)

4. U/s means Upstream , D/s means Downstream

Analysis results of Surface water monitoring under NWMP for the month of April, 2019

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	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 Satluj at U/S Nangal	1017	24/4/19	SW 529	ZO Lab Ldh	<5	9	7	141	132	12	8	70	16	3.9	84	BDL	0.6	0.39	1.4	0.08	0.16	5.3	2.7
2	River Satluj at D/S NFL	1380	24/4/19	SW 530	ZO Lab Ldh	<5	14	11	172	161	14	10	76	17.6	4.3	88	BDL	0.6	2.23	1.6	0.09	0.18	9.9	2.9
3	River Sutej at 100m D/s PACL Nangal	2915	24/4/19	SW 531	ZO Lab Ldh	<5	12	10	176	162	14	10	98	24.8	8.75	98	BDL	0.8	2.34	1.4	0.10	0.20	10.6	3.0
4	River Satluj at D/s Nangal	1018	24/4/19	SW 532	ZO Lab Ldh	<5	11	14	195	181	16	12	108	27.2	9.72	110	BDL	1.0	1.64	2.0	0.12	0.19	11.1	3.4
5	River Satluj at Kiratpur Sahib	1814	24/4/19	SW 542	ZO Lab Ldh	<5	8.8	10	164	150	14	10	102	26.4	8.74	96	BDL	0.8	0.42	2.0	0.10	0.29	11	2.7
6	Ropar Head-Works	1019	26/4/19	SW 544	ZO Lab Ldh	<5	8.2	12	178	162	13	10	132	32.8	12.15	86	BDL	1.2	0.56	2.6	0.10	0.22	16	1.2
7	River Satluj D/S of Rishab- Paper Mills	1293	26/4/19	SW 544	ZO Lab Ldh	<5	8.2	14	189	176	10	9	138	33.6	13.12	96	BDL	1.8	0.87	3.0	0.12	0.28	6.8	3.8
8	River Satluj U/S Buddha Nallah	1690	23/4/19	SW 534	ZO Lab Ldh	20	14.2	22	278	250	30	20	168	40.8	16.04	128	BDL	2.2	0.92	4.0	0.21	0.41	53	7.6
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	23/4/19	SW 536	ZO Lab Ldh	328	116	72	688	546	96	58	220	54.4	20.4	240	BDL	16	1.89	22	2.0	0.76	127	30
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	25/4/19	SW 538	ZO Lab Ldh	72	44	48	560	519	56	40	190	44	19.4	202	BDL	7.2	0.98	11	1.0	0.44	117	23
11	River Satluj at D/s East Bein	1381	23/4/19	SW 353	ZO Lab Jal.	75	164	62	750	540	163	86	212	56	17	278	BDL	14.1	2.4	19.6	0.78	0.22	167	22
12	River Satluj at Harike	1022	Sample could not be collected due to profuse growth of water hyacinth																					
13	Harike Lake D/S from canal	1382	23/4/19	SW 354	ZO Lab Jal.	23	124	44	242	200	24	16	142	39	11	137	BDL	2.6	1.4	3.6	0.38	0.15	21	4.6
14	D/S Harike lake	1297	23/4/19	SW 355	ZO Lab Jal.	18	96	28	220	180	20	16	136	37	11	118	BDL	1.8	1.0	2.2	0.24	0.12	17	4.3
15	U/S Hussainiwala H/W Ferozepur	1691	24/4/19	SW 539	ZO Lab Ldh	<5	8	12	172	160	12	8	122	30.4	11.18	92	BDL	0.8	0.37	1.4	0.2	0.19	13	3.1
16	D/S Hussainiwala H/W Ferozepur	1692	24/4/19	SW 540	ZO Lab Ldh	<5	10	16	189	172	16	10	140	33.6	13.4	102	BDL	1.0	0.44	1.6	0.4	0.26	11	4.0

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

Analysis results of Surface water monitoring under NWMP for the month of April, 2019 (Metal/Pesticides)

River Satluj

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	T.Cr mg/l	Ni mg/l	Fe mg/l	Zn mg/l	Cu mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	River Satluj at U/S Nangal	1017	24/4/19	SW 529	BDL	BDL	0.15	BDL	BDL	BDL	BDL	BDL	BDL
2	River Satluj at D/S NFL	1380	24/4/19	SW 530	BDL	BDL	0.22	BDL	BDL	BDL	BDL	BDL	BDL
3	River Sutej at 100m D/s PACL Nangal	2915	24/4/19	SW 531	BDL	BDL	0.18	BDL	BDL	BDL	BDL	BDL	BDL
4	River Satluj at D/s Nangal	1018	24/4/19	SW 532	BDL	BDL	0.75	BDL	BDL	BDL	BDL	BDL	BDL
5	River Satluj at Kiratpur Sahib	1814	24/4/19	SW 542	BDL	BDL	0.33	BDL	BDL	BDL	BDL	BDL	BDL
6	Ropar Head-Works	1019	26/4/19	SW 544	BDL	BDL	0.39	BDL	BDL	BDL	BDL	BDL	BDL
7	River Satluj D/S of Rishab- Paper Mills	1293	26/4/19	SW 544	BDL	BDL	0.41	BDL	BDL	BDL	BDL	BDL	BDL
8	River Satluj U/S Buddha Nallah	1690	23/4/19	SW 534	BDL	BDL	0.22	BDL	BDL	BDL	BDL	BDL	BDL
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	23/4/19	SW 536	0.24	0.14	21	2.0	0.01	BDL	BDL	BDL	BDL
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	25/4/19	SW 538	0.11	BDL	0.95	BDL	0.01	BDL	BDL	BDL	BDL
11	River Satluj at D/s East Bein	1381	23/4/19	SW 353	BDL	BDL	1.30	0.07	BDL	BDL	BDL	BDL	BDL
12	River Satluj at Harike	1022	Sample was not collected										
13	Harike Lake D/S from canal	1382	23/4/19	SW 354	BDL	BDL	0.21	0.08	BDL	BDL	BDL	BDL	BDL
14	D/S Harike lake	1297	23/4/19	SW 355	BDL	BDL	0.45	0.16	BDL	BDL	BDL	BDL	BDL
15	U/S Hussainiwala H/W Ferozepur	1691	24/4/19	SW 539	BDL	BDL	0.35	BDL	BDL	0.01	BDL	BDL	BDL
16	D/S Hussainiwala H/W Ferozepur	1692	24/4/19	SW 540	BDL	BDL	1.75	0.07	BDL	BDL	BDL	BDL	BDL

1. BDL means Below Method Detection Limit

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

Note.

Analysis results of Surface water monitoring under NWMP for the month of April, 2019

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. mg/l	SAR	B mg/l	Quality of water as per DBU	Water Quality Index
17	River Beas at Talwara H/W	1693	9/4/19	317	ZO Lab Jal.	7.8	8.7	BDL	242	70	33	BDL	0.40	0.14	B	S
18	River Beas at U/S Pathankot	1694	9/4/19	319	ZO Lab Jal.	7.8	8.7	1.0	276	140	110	0.018	0.48	0.14	B	S
19	River Beas at D/S Pathankot	1695	9/4/19	320	ZO Lab Jal.	7.8	8.4	1.4	300	580	250	0.021	0.19	0.14	C	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	9/4/19	318	ZO Lab Jal.	7.9	8.6	1.0	280	110	46	BDL	0.47	0.14	B	S
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	9/4/19	321	ZO Lab Jal.	7.7	8.0	1.9	320	790	330	0.021	0.24	0.10	C	S
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	10/4/19	342	ZO Lab Jal.	7.8	7.9	1.3	380	220	130	0.025	0.57	0.13	B	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	9/4/19	340	ZO Lab Jal.	7.6	8.3	1.1	310	280	170	0.020	0.23	0.11	B	S
24	River Beas at U/s Goindwal	1696	18/4/19	350	ZO Lab Jal.	7.7	8.8	1.0	298	280	170	0.021	0.43	0.19	B	S
25	River Beas at D/s Goindwal	1012	18/4/19	351	ZO Lab Jal.	8.1	8.6	1.3	310	280	170	0.046	0.39	0.17	B	S
26	Beas at Harike	1697	23/4/19	352	ZO Lab Jal.	7.8	8.9	1.2	318	350	220	0.021	0.45	0.16	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	SO4 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	PO4as P mg/l	F mg/l	Na mg/l	K mg/l
17	River Beas at Talwara H/W	1693	9/4/19	317	ZO Lab Jal.	6	15.6	11	152	122	10	10	96	30	5	94	BDL	BDL	BDL	BDL	BDL	BDL	9	2.3
18	River Beas at U/S Pathankot	1694	9/4/19	319	ZO Lab Jal.	8	34	16	180	160	13	12	118	30	10	113	BDL	0.5	0.4	1.0	0.10	BDL	12	2.6
19	River Beas at D/S Pathankot	1695	9/4/19	320	ZO Lab Jal.	10	38	22	190	163	14	12	123	35	9	123	BDL	0.6	0.5	1.0	0.12	0.10	5	2.2
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	9/4/19	318	ZO Lab Jal.	8	22.4	14	176	151	12	10	121	31	11	123	BDL	BDL	0.2	BDL	BDL	BDL	12	2.5
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	9/4/19	321	ZO Lab Jal.	16	59	26	194	160	18	14	121	37	7	130	BDL	0.7	0.6	1.2	0.14	0.12	6	2.6
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	10/4/19	342	ZO Lab Jal.	10	61	24	228	186	18	16	132	39	8	142	BDL	0.7	0.6	1.3	0.16	0.13	15	4.5
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	9/4/19	340	ZO Lab Jal.	10	75	38	190	156	16	14	126	33	11	116	BDL	0.8	0.8	1.5	0.14	0.13	6	2.5
24	River Beas at U/s Goindwal	1696	18/4/19	350	ZO Lab Jal.	12	62	32	198	164	14	12	124	32	11	127	BDL	0.7	0.8	1.3	0.15	0.12	11	3.5
25	River Beas at D/s Goindwal	1012	18/4/19	351	ZO Lab Jal.	13	58	34	202	170	16	12	127	34	10	132	BDL	0.7	1.0	1.4	0.16	0.14	10	3.2
26	Beas at Harike	1697	23/4/19	352	ZO Lab Jal.	12	49	24	208	170	14	12	130	38	9	130	BDL	0.6	0.8	1.3	0.12	0.11	12	3.5

Note. 1. BDL means Below Method Detection Limit

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3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)

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Analysis results of Surface water monitoring under NWMP for the month of April, 2019 (Metal/Pesticides)

River Beas

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	T.Cr mg/l	Ni mg/l	Fe mg/l	Zn mg/l	Cu mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	River Beas at Talwara H/W	1693	9/4/19	317	ZO Lab Jal.	BDL	BDL	0.09	BDL	BDL	BDL	BDL	BDL	BDL
2	River Beas at U/S Pathankot	1694	9/4/19	319	ZO Lab Jal.	BDL	BDL	0.17	0.09	BDL	BDL	BDL	BDL	BDL
3	River Beas at D/S Pathankot	1695	9/4/19	320	ZO Lab Jal.	BDL	BDL	0.17	0.07	BDL	BDL	BDL	BDL	BDL
4	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	9/4/19	318	ZO Lab Jal.	BDL	BDL	0.25	0.06	BDL	BDL	BDL	BDL	BDL
5	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	9/4/19	321	ZO Lab Jal.	BDL	BDL	0.14	0.06	BDL	BDL	BDL	BDL	BDL
6	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	10/4/19	342	ZO Lab Jal.	BDL	BDL	0.20	0.07	BDL	BDL	BDL	BDL	BDL
7	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	9/4/19	340	ZO Lab Jal.	BDL	BDL	0.21	0.10	BDL	BDL	BDL	BDL	BDL
8	River Beas at U/s Goindwal	1696	18/4/19	350	ZO Lab Jal.	BDL	BDL	0.07	0.05	BDL	BDL	BDL	BDL	BDL
9	River Beas at D/s Goindwal	1012	18/4/19	351	ZO Lab Jal.	BDL	BDL	0.12	0.05	BDL	BDL	BDL	BDL	BDL
10	Beas at Harike	1697	23/4/19	352	ZO Lab Jal.	BDL	BDL	0.35	0.05	BDL	BDL	BDL	BDL	BDL

Note. 1. BDL means Below Method Detection Limit

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

Analysis results of Surface water monitoring under NWMP for the month of April, 2019 (Metal/Pesticides)

S.N .	Point of Sample Collection	Code	Date of receipt in lab	Lab Code	T.Cr mg/l	Ni mg/l	Fe mg/l	Zn mg/l	Cu mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l	Alpha HCH µg/l	Beta HCH µg/l	Gama HCH µg/l	Anilophos µg/l	Chloro pyrifos µg/l	4,4' DDT µg/l	Endosulfan-1 µg/l	Endosulfan-2, µg/l	Methyl Parathion µg/l	Dieldrin µg/l	Aldrin µg/l	Malathion µg/l	
1	Ravi at U/s of Madhopur H/W	1097	9/4/19	SW 316	BDL	BDL	0.12	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Note. 1. BDL means Below Method Detection Limit

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

Analysis results of Surface water monitoring under NWMP for the month of April, 2019

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 µs/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	9/4/19	SW 5	H/o Lab Patiala	7.1	5.0	4	372	17000	2100	0.004	0.77	0.13	D	U
2	Ghaggar at Bhanakpur	1295	9/4/19	SW 6	H/o Lab Patiala	7.2	4.7	5	533	21000	2600	0.092	0.96	0.11	D	U
3	Ghaggar at Chattbir	1698	9/4/19	SW 7	H/o Lab Patiala	7.1	4.2	11	597	21000	2700	0.005	1.22	0.10	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	9/4/19	SW 8	H/o Lab Patiala	7.4	4.0	8	610	14000	1400	0.108	1.21	0.14	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	9/4/19	SW 9	H/o Lab Patiala	7.3	2.9	9	835	17000	1700	0.086	1.32	0.12	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	9/4/19	SW 11	H/o Lab Patiala	7.4	3.9	8	710	13000	1400	0.146	1.34	0.11	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	9/4/19	SW 12	H/o Lab Patiala	7.2	3.7	10	863	15000	1700	0.115	1.62	0.14	E	U
8	Ghaggar at Rattanheri	1473	10/4/19	SW 19	H/o Lab Patiala	7.6	2.8	20	1026	22000	2600	0.260	1.97	0.21	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s Sagar Para Drain)	4159	10/4/19	SW 20	H/o Lab Patiala	7.7	2.6	17	1097	21000	2200	0.330	1.94	0.24	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/4/19	SW 22	H/o Lab Patiala	7.8	1.6	42	1138	24000	3400	0.380	2.17	0.24	E	U
11	Ghaggar at Khanauri	1024	10/4/19	SW 23	H/o Lab Patiala	7.6	1.8	46	1248	28000	3900	0.295	2.15	0.19	E	U
12	Ghaggar at Moonak	1703	10/4/19	SW 26	H/o Lab Patiala	7.7	2.6	35	1165	24000	3300	0.339	2.07	0.24	E	U
13	Ghaggar at U/s Sardulgarh	1705	11/4/19	SW 28	H/o Lab Patiala	7.9	2.8	17	1045	22000	2700	0.459	2.04	0.24	E	U
14	Ghaggar at D/s Sardulgarh	1704	11/4/19	SW 29	H/o Lab Patiala	7.5	2.9	30	1230	28000	4000	0.230	2.44	0.37	E	U

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	SO4 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	PO4as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarikpur Rest House	1023	9/4/19	SW 5	H/o Lab Patiala	20	910	1026	223	190	48	9	153	48	8	146	BDL	7.1	3.71	9.9	0.58	0.32	22	3
2	Ghaggar at Bhankarpur	1295	9/4/19	SW 6	H/o Lab Patiala	21	980	1092	320	272	62	12	196	62	10	212	BDL	9.2	1.10	12.9	1.50	0.33	31	10
3	Ghaggar at Chattbir	1698	9/4/19	SW 7	H/o Lab Patiala	50	890	998	349	304	70	18	224	70	12	254	BDL	10.1	0.96	14.1	0.74	0.32	42	13
4	Ghaggar at U/s Jharmal Nadi	1702	9/4/19	SW 8	H/o Lab Patiala	36	480	580	366	311	68	15	207	68	9	234	BDL	7.2	0.72	10.0	0.72	0.29	40	15
5	Ghaggar at D/s Jharmal Nadi	1701	9/4/19	SW 9	H/o Lab Patiala	42	540	640	501	426	78	17	262	78	16	318	BDL	8.6	1.11	12.0	0.74	0.43	49	26
6	Ghaggar at U/s Dhakanshu Nallah	1699	9/4/19	SW 11	H/o Lab Patiala	32	740	610	426	362	74	14	243	74	14	270	BDL	9.7	0.68	13.6	0.40	0.32	48	19
7	Ghaggar at D/s Dhakanshu Nallah	1700	9/4/19	SW 12	H/o Lab Patiala	42	800	698	518	440	82	18	279	82	18	342	BDL	11.5	0.98	16.1	0.44	0.39	62	30
8	Ghaggar at Rattanheri	1473	10/4/19	SW 19	H/o Lab Patiala	78	30	84	616	524	92	20	296	92	16	380	BDL	10.4	0.89	14.6	0.30	0.37	78	27
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/4/19	SW 20	H/o Lab Patiala	67	25	62	658	559	97	22	321	97	19	400	BDL	11.0	0.94	15.4	0.47	0.42	80	33
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/4/19	SW 22	H/o Lab Patiala	142	30	68	683	581	106	26	356	106	22	490	BDL	10.8	0.66	15.1	1.78	0.47	94	36
11	Ghaggar at Khanauri	1024	10/4/19	SW 23	H/o Lab Patiala	150	50	70	749	637	100	42	332	100	20	494	BDL	11.8	0.91	16.5	2.07	0.46	90	32
12	Ghaggar at Moonak	1703	10/4/19	SW 26	H/o Lab Patiala	136	30	56	699	594	103	34	328	103	17	460	BDL	11.3	0.82	15.8	1.76	0.42	86	28
13	Ghaggar at U/s Sardulgarh	1705	11/4/19	SW 28	H/o Lab Patiala	72	25	52	627	533	95	22	300	95	15	402	BDL	10.2	0.73	14.3	1.47	0.39	81	25
14	Ghaggar at D/s Sardulgarh	1704	11/4/19	SW 29	H/o Lab Patiala	114	35	60	738	627	101	38	331	101	19	446	BDL	11.5	1.02	16.1	1.69	0.60	102	38

- 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

Analysis results of Surface water monitoring under NWMP for the month of April, 2019 (Metal/Pesticides)

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Code	T.Cr mg/l	Ni mg/l	Fe mg/l	Zn mg/l	Cu mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	Ghaggar at Mubarikpur Rest House	1023	9/4/19	SW 5	BDL	BDL	10.8	0.32	BDL	BDL	BDL	BDL	BDL
2	Ghaggar at Bhankarpur	1295	9/4/19	SW 6	BDL	BDL	14.5	0.17	BDL	BDL	BDL	BDL	BDL
3	Ghaggar at Chattbir	1698	9/4/19	SW 7	BDL	BDL	16.3	0.21	BDL	BDL	BDL	BDL	BDL
4	Ghaggar at U/s Jharmal Nadi	1702	9/4/19	SW 8	BDL	BDL	16.2	0.18	BDL	BDL	BDL	BDL	BDL
5	Ghaggar at D/s Jharmal Nadi	1701	9/4/19	SW 9	BDL	BDL	55.4	0.40	BDL	BDL	BDL	BDL	BDL
6	Ghaggar at U/s Dhakanshu Nallah	1699	9/4/19	SW 11	BDL	BDL	12.9	0.52	BDL	BDL	BDL	BDL	BDL
7	Ghaggar at D/s Dhakanshu Nallah	1700	9/4/19	SW 12	BDL	BDL	25.9	0.17	BDL	BDL	BDL	BDL	BDL
8	Ghaggar at Rattanheri	1473	10/4/19	SW 19	BDL	BDL	0.76	0.13	BDL	BDL	BDL	BDL	BDL
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/4/19	SW 20	BDL	BDL	2.33	0.17	BDL	BDL	BDL	BDL	BDL
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/4/19	SW 22	BDL	BDL	1.50	0.12	BDL	BDL	BDL	BDL	BDL
11	Ghaggar at Khanauri	1024	10/4/19	SW 23	BDL	BDL	1.99	0.10	BDL	BDL	BDL	BDL	BDL
12	Ghaggar at Moonak	1703	10/4/19	SW 26	BDL	BDL	3.39	0.15	BDL	BDL	BDL	BDL	BDL
13	Ghaggar at U/s Sardulgarh	1705	11/4/19	SW 28	BDL	BDL	0.68	0.18	BDL	BDL	BDL	BDL	BDL
14	Ghaggar at D/s Sardulgarh	1704	11/4/19	SW 29	BDL	BDL	0.53	0.16	BDL	BDL	BDL	BDL	BDL

Note. 1. BDL means Below Method Detection Limit

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