

## Analysis results of Surface water monitoring under NWMP for the month of December, 2020

### 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 $\mu$ 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	09.12.20	SW 1747	ZO Lab Ldh	7.8	7.3	<1	221	170	37	BDL	0.10	BDL	B	S
2	River Satluj at D/S NFL	1380	09.12.20	SW 1748	ZO Lab Ldh	8.5	9.9	<1	242	210	61	BDL	0.10	BDL	B	S
3	River Sutej at 100m D/s PACL Nangal	2915	09.12.20	SW 1749	ZO Lab Ldh	8.4	9.4	<1	248	240	68	BDL	0.10	BDL	B	S
4	River Satluj at D/s Nangal	1018	09.12.20	SW 1750	ZO Lab Ldh	8.5	10.2	<1	237	210	78	BDL	0.12	BDL	B	S
5	River Satluj at Kiratpur Sahib	1814	11.12.20	SW 1752	ZO Lab Ldh	8.4	9.2	<1	215	390	93	BDL	0.15	0.11	B	S
6	Ropar Head-Works	1019	11.12.20	SW 1755	ZO Lab Ldh	8.4	8.9	<1	229	1000	400	BDL	0.30	0.12	C	S
7	River Satluj D/S of Rishab-Paper Mills	1293	11.12.20	SW 1756	ZO Lab Ldh	7.9	8.6	<1	331	1200	400	BDL	0.34	0.38	C	S
8	River Satluj U/S Buddha Nallah	1690	14.12.20	SW 1761	ZO Lab Ldh	7.8	7.1	1.8	382	6300	1300	BDL	0.48	0.10	D	U
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.12.20	SW 1763	ZO Lab Ldh	7.4	BDL	38	1410	15,00,000	4,60,000	0.315	3.07	0.33	E	U
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.12.20	SW 1772	ZO Lab Ldh	7.6	3.8	8.2	489	58,000	11,000	0.115	1.66	0.18	E	U
11	River Satluj at D/s East Bein	1381	21.12.20	SW 1773	ZO Lab Jal.	7.4	2.9	9.6	566	1,10,000	22,000	0.078	1.90	0.29	E	U
12	River Satluj at Harike	1022	21.12.20	SW 1774	ZO Lab Ldh	7.3	5.0	2.9	438	1100	260	0.024	0.71	0.34	C	S
13	Harike Lake D/S from canal	1382	15.12.20	SW 669	ZO Lab, Jal	8.0	7.3	1.2	254	1400	380	0.040	0.66	0.17	C	S
14	D/S Harike lake	1297	15.12.20	SW 670	ZO Lab, Jal	7.9	7.0	1.8	268	940	260	0.041	0.64	0.28	C	S
15	U/S Hussainiwala H/W Ferozepur	1691	15.12.20	SW 1770	ZO Lab Ldh	7.9	8.5	1.4	250	930	200	BDL	0.51	0.16	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	15.12.20	SW 1771	ZO Lab Ldh	7.9	8.6	1.5	255	920	180	BDL	0.51	0.31	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

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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	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	River Satluj at U/S Nangal	1017	09.12.20	SW 1747	ZO Lab Ldh	<5	BDL	BDL	121	109	8	6	96	31.2	4.4	80	BDL	BDL	1.3	BDL	BDL	0.21	2.2	1.2
2	River Satluj at D/S NFL	1380	09.12.20	SW 1748	ZO Lab Ldh	<5	1	BDL	127	116	9	7	102	30.4	6.3	84	BDL	BDL	1.6	BDL	BDL	0.25	2.4	1.5
3	River Sutej at 100m D/s PACL Nangal	2915	09.12.20	SW 1749	ZO Lab Ldh	<5	2	BDL	129	117	9	7	106	32.8	5.8	82	BDL	BDL	1.5	BDL	BDL	0.26	2.4	1.5
4	River Satluj at D/s Nangal	1018	09.12.20	SW 1750	ZO Lab Ldh	<5	6	BDL	126	112	7	6	118	30.4	10.2	82	BDL	BDL	1.3	BDL	BDL	0.25	2.9	1.6
5	River Satluj at Kiratpur Sahib	1814	11.12.20	SW 1752	ZO Lab Ldh	<5	5	BDL	115	105	6	7	98	27.2	7.3	70	BDL	BDL	1.2	BDL	BDL	0.25	3.4	2.2
6	Ropar Head-Works	1019	11.12.20	SW 1755	ZO Lab Ldh	<5	3	BDL	137	125	12	10	120	32.8	9.2	90	BDL	BDL	1.3	BDL	BDL	0.21	7.6	2.1
7	River Satluj D/S of Rishab- Paper Mills	1293	11.12.20	SW 1756	ZO Lab Ldh	<5	3	BDL	216	192	52	21	148	41.6	10.7	108	BDL	BDL	1.4	BDL	BDL	0.32	9.6	2.9
8	River Satluj U/S Buddha Nallah	1690	14.12.20	SW 1761	ZO Lab Ldh	12	12	9	221	191	37	13	166	49.6	10.2	112	BDL	BDL	1.7	BDL	0.55	0.34	14.3	3.6
9	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.12.20	SW 1763	ZO Lab Ldh	182	110	204	843	670	225	29	270	75.2	19.9	380	BDL	21.0	1.9	33	8.24	0.57	116	15.6
10	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.12.20	SW 1772	ZO Lab Ldh	48	55	82	321	275	57	18	192	52.8	14.6	138	BDL	4.6	1.4	7.4	2.42	0.21	53	4.3
11	River Satluj at D/s East Bein	1381	21.12.20	SW 1773	ZO Lab Ldh	54	60	84	359	303	80	20	202	56	15.1	148	BDL	5.1	1.3	8.2	3.06	0.23	62	6.1
12	River Satluj at Harike	1022	21.12.20	SW 1774	ZO Lab Ldh	25	52	93	252	216	49	15	152	38.4	13.6	136	BDL	2.4	1.2	3.6	1.25	0.27	20.2	2.5
13	Harike Lake D/S from canal	1382	15.12.20	SW 669	ZO Lab, Jal	13	74	BDL	156	122	18	20	97	28	7	92	BDL	0.8	0.6	1.4	0.09	0.14	15	2.0
14	D/S Harike lake	1297	15.12.20	SW 670	ZO Lab, Jal	22	45	BDL	162	130	22	24	102	33	5	85	BDL	0.9	1.2	1.7	0.08	0.13	15	2.2
15	U/S Hussainiwala H/W Ferozepur	1691	15.12.20	SW 1770	ZO Lab Ldh	9	9	12	159	142	17	12	116	32	8.7	106	BDL	BDL	1.2	BDL	0.29	0.20	12.6	2.1
16	D/S Hussainiwala H/W Ferozepur	1692	15.12.20	SW 1771	ZO Lab Ldh	10	10	14	162	145	18	14	118	32.8	8.7	104	BDL	BDL	1.3	BDL	0.32	0.22	12.8	2.1

- 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 $\mu$ 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
17	River Beas at Talwara H/W	1693	04.12.20	SW 641	ZO Lab, Jal	7.8	7.8	1.1	211	110	40	0.014	0.78	BDL	B	S
18	River Beas at U/S Pathankot	1694	04.12.20	SW 643	ZO Lab, Jal	8.0	7.7	1.3	312	210	78	0.035	1.03	0.21	B	S
19	River Beas at D/S Pathankot	1695	04.12.20	SW 644	ZO Lab, Jal	8.0	7.5	1.1	287	340	40	0.025	0.91	0.26	B	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	04.12.20	SW 642	ZO Lab, Jal	7.9	7.7	1.3	357	390	170	0.023	0.73	0.12	B	S
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	07.12.20	SW 649	ZO Lab, Jal	7.8	7.9	1.2	267	330	78	0.025	0.66	0.34	B	S
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	07.12.20	SW 650	ZO Lab, Jal	7.8	8.3	BDL (<1)	275	410	170	0.018	0.81	0.16	B	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	15.12.20	SW 665	ZO Lab, Jal	8.0	7.6	1.2	217	470	170	0.035	0.69	0.12	B	S
24	River Beas at U/s Goindwal	1696	15.12.20	SW 666	ZO Lab, Jal	8.0	7.4	BDL (<1)	216	390	170	0.020	0.69	0.10	B	S
25	River Beas at D/s Goindwal	1012	15.12.20	SW 667	ZO Lab, Jal	7.9	7.7	1.1	221	460	170	0.023	0.68	0.29	B	S
26	Beas at Harike	1697	15.12.20	SW 668	ZO Lab, Jal	8.0	7.7	1.1	216	340	78	0.030	0.63	0.19	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	04.12.20	SW 641	ZO Lab, Jal	8	14	BDL	148	118	10	13	100	25	9	81	BDL	0.4	0.4	0.9	0.06	0.14	18	2.1
18	River Beas at U/S Pathankot	1694	04.12.20	SW 643	ZO Lab, Jal	13	87	19	208	169	15	17	122	32	10	104	BDL	0.7	0.8	1.7	0.06	0.13	26	2.6
19	River Beas at D/S Pathankot	1695	04.12.20	SW 644	ZO Lab, Jal	13	54	12	194	154	14	16	110	29	9	113	BDL	0.5	0.6	1.2	0.07	0.15	22	2.5
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	04.12.20	SW 642	ZO Lab, Jal	14	14	BDL	221	192	16	18	128	33	11	113	BDL	0.5	0.6	1.2	0.05	0.12	19	2.1
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	07.12.20	SW 649	ZO Lab, Jal	14	46	10	175	142	12	15	101	28	7	109	BDL	0.7	0.7	1.5	0.07	0.16	15	2.6
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	07.12.20	SW 650	ZO Lab, Jal	13	59	12	182	145	14	13	115	33	8	117	BDL	0.5	0.8	1.4	0.08	0.17	20	2.9
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	15.12.20	SW 665	ZO Lab, Jal	12	54	12	152	128	15	16	100	27	8	92	BDL	0.7	0.6	1.4	0.08	0.16	16	2.2
24	River Beas at U/s Goindwal	1696	15.12.20	SW 666	ZO Lab, Jal	10	48	10	132	112	10	12	90	26	6	89	BDL	0.4	0.5	1.0	0.06	0.11	15	2.2
25	River Beas at D/s Goindwal	1012	15.12.20	SW 667	ZO Lab, Jal	11	43	BDL	138	105	12	14	94	27	6	90	BDL	0.5	0.4	1.0	0.05	0.11	15	2.3
26	Beas at Harike	1697	15.12.20	SW 668	ZO Lab, Jal	12	37	BDL	138	116	12	15	94	27	6	75	BDL	0.6	0.7	1.3	0.06	0.12	14	2.1

Note. 1. BDL means Below Method Detection Limit

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#### 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 $\mu$ 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
27	Ravi at U/s of Madhopur H/W	1097	04.12.20	SW 640	ZO Lab, Jal	7.9	8.0	BDL (<1)	214	170	82	0.014	0.89	BDL	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 <sub>4</sub> Mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Alkn mg/l	P.Alkn mg/l	AmnN mg/l	NO <sub>3</sub> -N mg/l	TKN mg/l	PO <sub>4</sub> as P mg/l	F mg/l	Na mg/l	K mg/l
27	Ravi at U/s of Madhopur H/W	1097	04.12.20	SW 640	ZO Lab, Jal	BDL	11	BDL	145	110	14	10	77	21	6	61	BDL	BDL	BDL	BDL	0.05	0.09	18	2.2

### Analysis results of Surface water monitoring under NWMP for the month of December, 2020

#### 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 $\mu$ 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	4.12.20	SW 3439	H/o Lab Patiala	7.8	5.5	10	511	24000	2700	0.33	1.81	0.27	D	U
2	Ghaggar at Bhankarpur	1295	4.12.20	SW 3440	H/o Lab Patiala	7.6	2.9	37	811	28000	4000	0.34	2.33	0.46	E	U
3	Ghaggar at Chattbir	1698	4.12.20	SW 3441	H/o Lab Patiala	7.6	1.9	39	868	28000	4600	0.33	2.36	0.33	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	4.12.20	SW 3442	H/o Lab Patiala	7.5	3.2	12	607	24000	3400	0.20	1.88	0.31	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	4.12.20	SW 3443	H/o Lab Patiala	7.5	2.8	17	687	28000	4700	0.25	1.99	0.45	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	4.12.20	SW 3445	H/o Lab Patiala	7.6	3.4	11	597	22000	3100	0.25	1.90	0.41	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	4.12.20	SW 3446	H/o Lab Patiala	7.7	3.0	18	703	24000	3300	0.36	2.03	0.56	E	U
8	Ghaggar at Rattanheri	1473	7.12.20	SW 3455	H/o Lab Patiala	7.3	2.1	32	964	35000	4700	0.14	2.33	0.78	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7.12.20	SW 3456	H/o Lab Patiala	7.5	2.3	31	928	28000	4000	0.26	2.30	0.74	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7.12.20	SW 3457	H/o Lab Patiala	7.6	2.0	35	1083	35000	4600	0.32	2.29	0.80	E	U
11	Ghaggar at Khanauri	1024	7.12.20	SW 3460	H/o Lab Patiala	7.7	3.0	22	773	28000	4300	0.40	2.24	0.61	E	U
12	Ghaggar at Moonak	1703	7.12.20	SW 3462	H/o Lab Patiala	7.8	2.7	23	842	35000	4600	0.49	2.28	0.68	E	U
13	Ghaggar at U/s Sardulgarh	1705	14.12.20	SW 3471	H/o Lab Patiala	7.6	4.4	14	640	22000	3200	0.23	1.77	0.40	D	U
14	Ghaggar at D/s Sardulgarh	1704	14.12.20	SW 3472	H/o Lab Patiala	7.8	4.1	18	732	24000	3400	0.37	1.79	0.46	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	4.12.20	SW 3439	H/o Lab Patiala	48	730	492	332	282	38	21	128	33	11	213	BDL	9.3	1.2	13.0	0.72	1.1	47	24
2	Ghaggar at Bhankarpur	1295	4.12.20	SW 3440	H/o Lab Patiala	184	265	262	527	448	78	34	321	79	30	233	BDL	12.9	1.3	18.1	2.1	1.2	96	39
3	Ghaggar at Chattbir	1698	4.12.20	SW 3441	H/o Lab Patiala	196	140	192	564	479	86	35	348	83	34	252	BDL	13.1	1.3	18.3	2.0	1.3	101	41
4	Ghaggar at U/s Jharmal Nadi	1702	4.12.20	SW 3442	H/o Lab Patiala	60	145	154	394	335	57	21	181	41	19	225	BDL	10.1	1.2	14.1	1.9	1.2	58	32
5	Ghaggar at D/s Jharmal Nadi	1701	4.12.20	SW 3443	H/o Lab Patiala	84	195	210	446	379	62	26	222	49	24	242	BDL	12.7	1.3	17.8	2.1	1.4	68	40
6	Ghaggar at U/s Dhakanshu Nallah	1699	4.12.20	SW 3445	H/o Lab Patiala	56	40	61	388	330	58	22	165	38	17	227	BDL	9.9	1.1	13.9	1.3	1.0	56	29
7	Ghaggar at D/s Dhakanshu Nallah	1700	4.12.20	SW 3446	H/o Lab Patiala	92	60	69	457	388	64	28	220	45	26	249	BDL	11.9	1.4	16.7	1.8	1.2	69	43
8	Ghaggar at Rattanheri	1473	7.12.20	SW 3455	H/o Lab Patiala	164	130	129	627	533	97	47	439	90	52	257	BDL	13.7	1.5	19.2	2.4	1.3	112	42
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7.12.20	SW 3456	H/o Lab Patiala	156	125	126	603	513	94	43	417	86	49	253	BDL	13.2	1.4	18.5	2.3	1.3	108	39
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7.12.20	SW 3457	H/o Lab Patiala	176	145	140	650	553	99	50	470	96	56	258	BDL	12.6	1.5	17.6	2.4	1.3	114	47
11	Ghaggar at Khanauri	1024	7.12.20	SW 3460	H/o Lab Patiala	108	45	52	502	427	72	31	299	62	35	245	BDL	13.3	1.3	18.6	1.7	1.2	89	34
12	Ghaggar at Moonak	1703	7.12.20	SW 3462	H/o Lab Patiala	116	40	54	547	465	78	37	335	70	39	251	BDL	14.1	1.4	19.7	1.9	1.2	96	44
13	Ghaggar at U/s Sardulgarh	1705	14.12.20	SW 3471	H/o Lab Patiala	68	40	47	416	354	59	21	217	57	18	238	BDL	9.2	1.0	12.9	1.1	1.0	60	26
14	Ghaggar at D/s Sardulgarh	1704	14.12.20	SW 3472	H/o Lab Patiala	92	45	50	476	405	70	26	281	68	27	246	BDL	10.6	1.2	14.8	1.6	1.0	69	36

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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 $\mu$ s/Cm	T.Coli MPN/ 100ml	FColi MPN/ 100ml	Free Amm. mg/l	SAR	B mg/l	Water quality as per DBU	Water Quality Index
1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	11.12.20	SW 3467	H.O. Lab Patiala	7.7	BDL	217	5865	430000	170000	0.27	7.37	109	E	U
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	11.12.20	SW 3468	H.O. Lab Patiala	7.6	BDL	47	1795	120000	26000	0.58	2.91	0.72	E	U
3	Point Source B/N	2914	14.12.20	SW 1762	Z.O. Lab, Ludhiana	7.2	BDL	120	2180	28,00,000	9,40,000	0.370	4.87	0.46	E	U
4	Kali Bein into Beas	2913	22.12.20	SW 682	ZO Lab, Jal	7.3	4.3	2.7	289	1700	780	0.008	1.09	0.44	C	S
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	<b>Sample was not collected</b>													
6	Tungdab drain at fatehgarh churian, Amritsar	2910	10.12.20	SW 658	ZO Lab, Jal	7.1	BDL	235	2300	920000	350000	0.011	8.13	0.44	E	U
7	Hundiara drain before entering Pakistan	2907	10.12.20	SW 659	ZO Lab, Jal	7.5	BDL	115	1506	540000	220000	0.320	6.91	0.52	E	U
8	Pathlawa Drain	2911	<b>Sample was not collected</b>													
9	Ranjit Sagar Reservoir	2912	04.12.20	SW 639	ZO Lab, Jal	8.0	8.1	BDL (<1)	205	93	20	0.020	0.88	BDL	B	S
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	04.12.20	SW 3444	H.O. Lab Patiala	7.8	BDL	49	1257	220000	32000	0.37	3.66	1.02	E	U
11	Sagar Para Drain at village sagra dist.Patiala	4158	07.12.20	SW 3458	H.O. Lab Patiala	7.8	1.5	43	1126	38000	5500	0.32	2.19	0.86	E	U
12	Confluence point of sukhana Choe with River Ghaggar, vill. Mubarkpur	4162	04.12.20	SW 3450	H.O. Lab Patiala	7.5	BDL	40	1080	350000	94000	0.39	3.66	1.10	E	U
13	Confluence point of Sarsa Nadi with river Satluj	4161	11.12.20	SW 1754	Z.O. Lab, Ludhiana	8.5	9.9	<1	362	930	370	BDL	0.40	0.19	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 December, 2020

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 <sub>4</sub> 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 <sub>4</sub> as P mg/l	F mg/l	Na mg/l	K mg/l
1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	11.12.20	SW 3467	H.O. Lab Patiala	867	360	392	3812	3240	858	321	2071	387	268	1297	BDL	9.1	6.1	12.7	6.4	3.3	771	324
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	11.12.20	SW 3468	H.O. Lab Patiala	210	65	114	1167	992	168	89	867	192	94	297	BDL	23.2	2.0	32.5	3.1	1.4	197	204
3	Point Source B/N	2914	14.12.20	SW 1762	Z.O. Lab, Ludhiana	401	140	308	1308	996	378	43	352	96	27.2	516	BDL	37	3.3	59	23.6	0.92	210	34.6
4	Kali Bein into Beas	2913	22.12.20	SW 682	ZO Lab, Jal	17	17	BDL	172	140	12	16	90	25	7	94	BDL	0.8	0.9	1.8	0.12	0.19	24	3.8
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	<b>Sample was not collected</b>																					
6	Tungdab drain at fatehgarh churian, Amritsar	2910	10.12.20	SW 658	ZO Lab, Jal	564	440	124	1410	1060	159	284	314	77	29	620	BDL	31	2.4	42	3.1	0.54	330	37
7	Hundiara drain before entering Pakistan	2907	10.12.20	SW 659	ZO Lab, Jal	280	371	42	1013	815	118	210	193	47	18	480	BDL	16	1.8	21	1.9	0.41	220	30
8	Pathlawa Drain	2911	<b>Sample was not collected</b>																					
9	Ranjit Sagar Reservoir	2912	04.12.20	SW 639	ZO Lab, Jal	5	9	BDL	134	108	12	12	96	26	8	56	BDL	BDL	0.3	BDL	0.06	0.07	20	2.2
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	04.12.20	SW 3444	H.O. Lab Patiala	224	60	96	817	694	167	69	544	114	63	268	BDL	10.7	1.6	15.0	4.9	1.5	196	98
11	Sagar Para Drain at village sagra dist.Patiala	4158	07.12.20	SW 3458	H.O. Lab Patiala	196	55	64	732	622	106	46	580	110	74	301	BDL	9.2	1.4	12.9	3.0	1.4	121	59
12	Confluence point of sukhana Choe with River Ghaggar, vill.Mubarkpur	4162	04.12.20	SW 3450	H.O. Lab Patiala	184	120	131	702	597	89	40	424	87	50	287	BDL	19.6	2.1	27.4	3.3	1.2	173	46
13	Confluence point of Sarsa Nadi with river Satluj	4161	11.12.20	SW 1754	Z.O. Lab, Ludhiana	<5	9	BDL	209	179	29	12	140	37.6	11.2	132	BDL	BDL	1.5	BDL	BDL	0.34	10.9	4.2

- 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**