

Analysis results of Surface water monitoring under NWMP for the month of December, 2022

River Sutlej

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 River Sutlej at U/S Nangal	1017	05.12.2022	SW 472	ZO Lab LDH	8.2	7.6	BDL	229	170	18	BDL	0.21	BDL	B	S
2	River River Sutlej at D/S NFL	1380	05.12.2022	SW 473	ZO Lab LDH	8.1	9.7	BDL	238	170	20	BDL	0.23	BDL	B	S
3	River Sutlej at 100m D/s PACL Nangal	2915	05.12.2022	SW 474	ZO Lab LDH	8.1	9.5	BDL	239	140	20	BDL	0.21	BDL	B	S
4	River River Sutlej at D/s Nangal	1018	05.12.2022	SW 475	ZO Lab LDH	8.0	7.6	BDL	296	170	11	BDL	0.33	0.14	B	S
5	River River Sutlej at Kiratpur Sahib	1814	06.12.2022	SW 479	ZO Lab LDH	8.5	8.3	BDL	250	410	110	BDL	0.22	0.15	B	S
6	Ropar Head-Works	1019	06.12.2022	SW 482	ZO Lab LDH	8.3	7.3	BDL	252	580	250	BDL	0.25	0.10	C	S
7	River River Sutlej D/S of Rishab- Paper Mills	1293	06.12.2022	SW 483	ZO Lab LDH	8.3	8.0	BDL	247	940	320	BDL	0.20	0.31	C	S
8	River River Sutlej U/S Buddha Nallah	1690	07.12.2022	SW 490	ZO Lab LDH	8.2	7.4	BDL	254	1000	400	0.056	0.52	0.13	C	S
9	River River Sutlej at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	07.12.2022	SW 492	ZO Lab LDH	7.7	3.8	8	351	7,00,000	3,30,000	0.072	0.76	0.37	E	U
10	River River Sutlej at Boat Bridge, Dharamkot Nakodar Road	1021	08.12.2022	SW 495	ZO Lab LDH	8.5	6.2	3.1	358	1,10,000	33,000	0.182	0.84	0.21	D	U
11	River River Sutlej at D/s East Bein	1381	08.12.2022	SW 496	ZO Lab LDH	8.4	5.8	3.3	311	2,70,000	1,40,000	0.200	0.79	0.27	D	U
12	River Sutlej at Harike	1022	08.12.2022	SW 497	ZO Lab LDH	8.5	7.6	2.0	373	3900	1700	0.15	1.13	0.32	C	S
13	Harike Lake D/S from canal	1382	20/12/22	620	ZO Lab, Jal	8.1	7.8	1.3	190	940	320	0.08	0.37	0.27	C	S
14	D/S Harike lake	1297	20/12/22	619	ZO Lab, Jal	8.1	7.9	1.2	197	840	260	0.08	0.52	0.25	C	S
15	U/S Hussainiwala H/W Ferozepur	1691	09.12.2022	SW 501	ZO Lab LDH	7.5	6.0	1.2	314	2100	780	BDL	0.92	0.12	C	S
16	D/S Hussainiwala H/W Ferozepur	1692	09.12.2022	SW 502	ZO Lab LDH	7.5	6.2	1.2	316	3200	1700	BDL	0.93	0.27	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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1	River River Sutlej at U/S Nangal	1017	05.12.2022	SW 472	ZO Lab LDH	BDL	BDL	BDL	130	115	7	12	124	32	10.7	75	BDL	BDL	1.8	BDL	BDL	0.22	5.5	2.1
2	River River Sutlej at D/S NFL	1380	05.12.2022	SW 473	ZO Lab LDH	BDL	2	BDL	136	121	8	13	118	30.4	10.2	73	BDL	BDL	1.6	BDL	BDL	0.24	5.7	2.2
3	River Sutej at 100m D/s PACL Nangal	2915	05.12.2022	SW 474	ZO Lab LDH	BDL	1	BDL	135	120	9	13	120	31.2	10.2	76	BDL	BDL	1.7	BDL	BDL	0.23	5.4	2.3
4	River River Sutlej atD/s Nangal	1018	05.12.2022	SW 475	ZO Lab LDH	BDL	BDL	BDL	168	148	10	15	148	37.6	13.1	102	BDL	BDL	1.7	BDL	BDL	0.24	9.3	2.2
5	River River Sutlej at Kiratpur Sahib	1814	06.12.2022	SW 479	ZO Lab LDH	BDL	1	BDL	140	122	7	12	124	32	10.7	70	BDL	BDL	1.8	BDL	BDL	0.23	5.7	2.1
6	Ropar Head-Works	1019	06.12.2022	SW 482	ZO Lab LDH	BDL	10	12	144	122	8	10	164	42.4	14.1	82	BDL	BDL	1.5	BDL	BDL	0.24	7.5	2.2
7	River River Sutlej D/S of Rishab-Paper Mills	1293	06.12.2022	SW 483	ZO Lab LDH	BDL	25	18	145	123	9	12	132	33.6	11.7	74	BDL	BDL	1.8	BDL	BDL	0.24	5.2	2.2
8	River River Sutlej U/S Buddha Nallah	1690	07.12.2022	SW 490	ZO Lab LDH	BDL	60	79	152	130	7	14	144	37.6	12.2	78	BDL	0.7	2.6	1.6	BDL	0.26	14.3	4.3
9	River River Sutlej at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	07.12.2022	SW 492	ZO Lab LDH	48	95	140	217	176	20	20	160	41.6	13.6	110	BDL	2.4	2.7	3.1	0.31	0.36	22	6.7
10	River River Sutlej at Boat Bridge, Dharamkot Nakodar Road	1021	08.12.2022	SW 495	ZO Lab LDH	22	65	76	220	181	22	23	148	38.4	12.6	106	BDL	1.3	2.0	1.7	0.15	0.32	23.5	9
11	River River Sutlej at D/s East Bein	1381	08.12.2022	SW 496	ZO Lab LDH	25	75	84	192	156	14	26	160	40.8	14.1	100	BDL	1.6	1.8	2.2	0.15	0.35	23.1	8.3
12	River River Sutlej at Harike	1022	08.12.2022	SW 497	ZO Lab LDH	16	85	105	220	186	19	20	150	39.2	12.6	115	BDL	1.0	1.9	1.6	0.24	0.29	31.9	11.2
13	Harike Lake D/S from canal	1382	20/12/22	620	ZO Lab, Jal	10	62	54	125	101	14	13	78	19	7.3	80	ND	1.2	1.1	2.4	0.13	0.20	7.6	2.4
14	D/S Harike lake	1297	20/12/22	619	ZO Lab, Jal	8	58	61	128	105	14	12	86	22	7.8	88	ND	1.3	1.2	2.2	0.14	0.18	11	2.5
15	U/S Hussainiwala H/W Ferozepur	1691	09.12.2022	SW 501	ZO Lab LDH	10	4	BDL	192	163	20	15	134	36	10.7	112	BDL	BDL	1.8	BDL	BDL	0.26	24.4	6.3
16	D/S Hussainiwala H/W Ferozepur	1692	09.12.2022	SW 502	ZO Lab LDH	12	5	BDL	195	164	21	14	132	35.2	10.7	114	BDL	BDL	1.7	BDL	BDL	0.24	24.5	6.1

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River Beas

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17	River Beas at Talwara H/W	1693	13/12/22	594	ZO Lab, Jal	8.1	8.8	1	178	94	22	0.06	0.46	BDL	B	S
18	River Beas at U/S Pathankot	1694	13/12/22	596	ZO Lab, Jal	8.2	8.4	1.2	255	220	110	0.08	0.56	0.19	B	S
19	River Beas at D/S Pathankot	1695	13/12/22	597	ZO Lab, Jal	8.1	8.2	1.1	259	280	130	0.07	0.40	0.27	B	S
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	13/12/22	595	ZO Lab, Jal	8.2	8.3	1.1	248	170	79	0.08	0.48	0.16	B	S
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	19/12/22	607	ZO Lab, Jal	8.2	8.7	1.2	285	350	170	0.09	0.39	0.29	B	S
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	19/12/22	608	ZO Lab, Jal	8.1	8.9	1	242	220	110	0.07	0.30	0.21	B	S
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	20/12/22	622	ZO Lab, Jal	8.1	8.6	1.2	212	270	130	0.07	0.34	0.20	B	S
24	River Beas at U/s Goindwal	1696	20/12/22	616	ZO Lab, Jal	8.1	8.9	1.1	190	170	79	0.06	0.35	0.17	B	S
25	River Beas at D/s Goindwal	1012	20/12/22	617	ZO Lab, Jal	8.2	8.7	1.2	187	220	110	0.08	0.33	0.24	B	S
26	Beas at Harike	1697	20/12/22	618	ZO Lab, Jal	8.2	8.9	1	181	280	130	0.08	0.32	0.23	B	S

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17	River Beas at Talwara H/W	1693	13/12/22	594	ZO Lab, Jal	7	BDL	3	113	96	10	9	78	20	6.8	80	ND	0.9	0.7	1.5	0.10	0.13	9.3	2.1
18	River Beas at U/S Pathankot	1694	13/12/22	596	ZO Lab, Jal	8	11	7	165	133	11	10	120	29	12	122	ND	1.0	0.8	1.6	0.12	0.16	14	2.7
19	River Beas at D/S Pathankot	1695	13/12/22	597	ZO Lab, Jal	7	15	14	162	132	10	8	106	26	10	124	ND	1.1	0.9	1.8	0.14	0.18	9.4	2.4
20	River Beas at Mirthal Bridge Gurdaspur (Pb.)	1010	13/12/22	595	ZO Lab, Jal	8	10	11	159	129	9	8	116	26	12	118	ND	1.0	0.7	1.6	0.11	0.16	12	2.7
21	River Beas 1 Km D/S effluent discharge point at Mukerian	1294	19/12/22	607	ZO Lab, Jal	8	21	18	174	142	10	9	118	30	11	132	ND	1.1	1.0	1.8	0.15	0.17	9.8	2.8
22	River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur	4164	19/12/22	608	ZO Lab, Jal	9	24	20	151	128	12	11	106	27	9.2	110	ND	1.0	1.0	1.6	0.14	0.20	7.2	2.6
23	River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb)	1011	20/12/22	622	ZO Lab, Jal	9	38	25	132	108	15	12	90	22	8.7	88	ND	1.1	0.9	1.8	0.13	0.19	7.4	2.2
24	River Beas at U/s Goindwal	1696	20/12/22	616	ZO Lab, Jal	8	30	27	128	107	11	11	82	23	5.8	84	ND	0.9	0.8	1.4	0.13	0.20	7.3	2.9
25	River Beas at D/s Goindwal	1012	20/12/22	617	ZO Lab, Jal	8	39	35	123	101	13	10	84	24	5.8	82	ND	1.0	0.9	1.6	0.15	0.18	6.9	2.1
26	Beas at Harike	1697	20/12/22	618	ZO Lab, Jal	6	42	45	118	96	15	13	80	21	6.8	82	ND	1.0	0.9	1.6	0.12	0.20	6.6	2.2

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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 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
27	Ravi at U/s of Madhopur H/W	1097	13/12/22	593	ZO Lab, Jal	8.2	8.9	BDL	169	100	18	BDL	0.16	BDL	B	S

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27	Ravi at U/s of Madhopur H/W	1097	13/12/22	593	ZO Lab, Jal	5	10	6	103	86	10	7	84	21	7.8	66	ND	BDL	0.4	BDL	BDL	0.11	3.3	2.0

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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	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	05.01.2023	1096	H/o Lab Patiala	7.5	4.2	11	491	21000	2100	1.84	0.51	D	U
2	Ghaggar at Bhankarpur	1295	05.01.2023	1097	H/o Lab Patiala	7.7	2.2	23	701	24000	3400	1.88	0.57	E	U
3	Ghaggar at Chattbir	1698	05.01.2023	1098	H/o Lab Patiala	7.8	2.1	22	711	28000	3800	1.78	0.63	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	05.01.2023	1099	H/o Lab Patiala	8.0	3.4	13	593	24000	3400	1.75	0.50	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	05.01.2023	1100	H/o Lab Patiala	7.4	3.0	14	703	28000	3900	1.82	0.63	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	05.01.2023	1102	H/o Lab Patiala	8.0	3.1	10	565	21000	2200	1.72	0.51	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	05.01.2023	1103	H/o Lab Patiala	8.1	2.8	17	710	28000	3800	1.92	0.69	E	U
8	Ghaggar at Rattanheri	1473	10.01.2023	1167	H/o Lab Patiala	8.0	3.1	14	721	28000	4600	1.87	0.69	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10.01.2023	1168	H/o Lab Patiala	8.1	3.0	13	701	28000	3400	1.88	0.66	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10.01.2023	1169	H/o Lab Patiala	8.1	2.6	15	820	35000	5800	1.89	0.85	E	U
11	Ghaggar at Khanauri	1024	10.01.2023	1172	H/o Lab Patiala	7.9	3.0	14	708	28000	3800	1.70	0.82	E	U
12	Ghaggar at Moonak	1703	10.01.2023	1174	H/o Lab Patiala	7.8	2.2	17	771	35000	5800	1.75	0.95	E	U
13	Ghaggar at U/s Sardulgarh	1705	18.01.2023	1195	H/o Lab Patiala	7.6	4.3	12	527	21000	2100	1.64	0.55	D	U
14	Ghaggar at D/s Sardulgarh	1704	18.01.2023	1196	H/o Lab Patiala	7.5	4.0	13	591	22000	2600	1.66	0.65	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	05.01.2023	1096	H/o Lab Patiala	56	460	442	315	269	30	11	146	35	14	219	BDL	9.4	1.0	13.2	1.2	1.1	51	22
2	Ghaggar at Bhankarpur	1295	05.01.2023	1097	H/o Lab Patiala	117	450	423	453	387	65	17	238	68	19	245	BDL	10.7	1.2	15.0	1.3	1.2	68	35
3	Ghaggar at Chattbir	1698	05.01.2023	1098	H/o Lab Patiala	112	370	358	463	395	68	18	253	70	19	253	BDL	11.6	1.3	16.2	1.4	1.3	65	37
4	Ghaggar at U/s Jharmal Nadi	1702	05.01.2023	1099	H/o Lab Patiala	66	290	222	377	321	43	16	175	45	15	238	BDL	11.4	1.2	16.0	1.3	1.2	53	27
5	Ghaggar at D/s Jharmal Nadi	1701	05.01.2023	1100	H/o Lab Patiala	76	280	247	417	355	50	17	194	51	16	261	BDL	11.8	1.3	16.5	1.2	1.2	58	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	05.01.2023	1102	H/o Lab Patiala	43	200	132	358	305	38	14	153	40	13	240	BDL	10.9	1.1	15.3	1.2	1.1	49	25
7	Ghaggar at D/s Dhakanshu Nallah	1700	05.01.2023	1103	H/o Lab Patiala	84	210	177	457	389	63	19	237	65	18	258	BDL	1.5	1.4	16.1	1.3	1.3	68	31
8	Ghaggar at Rattanheri	1473	10.01.2023	1167	H/o Lab Patiala	68	230	212	469	399	62	21	244	58	24	273	BDL	11.7	1.3	16.4	1.1	1.2	67	37
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10.01.2023	1168	H/o Lab Patiala	63	230	200	453	387	58	19	220	55	20	269	BDL	11.4	.2	16.1	1.1	1.1	64	35
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10.01.2023	1169	H/o Lab Patiala	75	245	229	493	421	65	24	268	66	25	277	BDL	9.6	1.3	13.4	1.2	1.2	71	39
11	Ghaggar at Khanauri	1024	10.01.2023	1172	H/o Lab Patiala	72	210	198	451	385	62	20	252	58	26	259	BDL	11.2	1.3	15.7	1.0	1.2	62	30
12	Ghaggar at Moonak	1703	10.01.2023	1174	H/o Lab Patiala	85	260	232	501	427	73	29	357	75	41	278	BDL	11.9	1.3	16.7	1.2	1.3	76	35
13	Ghaggar at U/s Sardulgarh	1705	18.01.2023	1195	H/o Lab Patiala	56	90	48	342	292	33	17	162	35	18	229	BDL	9.3	1.1	13.0	1.0	1.0	48	22
14	Ghaggar at D/s Sardulgarh	1704	18.01.2023	1196	H/o Lab Patiala	61	110	53	382	327	40	22	200	42	23	238	BDL	10.1	1.2	14.1	1.1	1.1	54	26

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1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	13.01.2023	1184	H.O. Lab Patiala	7.8	BDL	119	4721	350000	110000	-	6.37	1.71	E	E
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	13.01.2023	1185	H.O. Lab Patiala	7.7	BDL	61	2225	350000	94000	-	2.97	1.35	E	E
3	Point Source B/N	2914	07.12.2022	SW 491	ZO Lab LDH	7.4	BDL	160	1512	49,00,000	22,00,000	0.301	4.11	0.48	E	U
4	Kali Bein into Beas	2913	12/12/22	588	ZO Lab, Jal	7.4	4.2	1.5	262	2800	1400	0.02	0.74	0.48	C	S
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	Drain was found dried, hence sample could not be collected													
6	Tungdab drain at fatehgarh churian, Amritsar	2910	20/12/22	623	ZO Lab, Jal	7.1	BDL	185	2310	940000	220000	0.02	6.57	0.55	E	U
7	Hundiara drain before entering Pakistan	2907	20/12/22	624	ZO Lab, Jal	7.5	BDL	90	1352	460000	170000	0.56	2.12	0.67	E	U
8	Pathlawa Drain	2911	Drain was found dried, hence sample could not be collected													
9	Ranjit Sagar Reservoir	2912	13/12/22	592	ZO Lab, Jal	8.2	8.6	BDL	151	110	40	BDL	0.13	BDL	B	S
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	05.01.2023	1101	H.O. Lab Patiala	7.9	BDL	48	1225	94000	26000	-	1.76	1.19	E	E
11	Sagar Para Drain at village sagra dist.Patiala	4158	10.01.2023	1170	H.O. Lab Patiala	8.2	1.4	21	983	28000	4600	-	1.79	0.95	E	E
12	Confluence point of sukhana Choe with River Ghaggar, vill.Mubarkpur	4162	05.01.2023	1108	H.O. Lab Patiala	7.4	BDL	83	2124	430000	110000	-	3.52	1.23	E	E
13	Confluence point of Sarsa Nadi with river River Sutlej	4161	06.12.2022	SW 481	ZO Lab Ldh	8.3	6.6	BDL	540	580	130	BDL	1.10	0.18	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, 2022

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 P mg/l	F mg/l	Na mg/l	K mg/l
1	Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab	2906	13.01.2023	1184	H.O. Lab Patiala	473	390	415	4721	3067	663	87	1960	397	235	1045	BDL	9.1	6.9	12.7	6.8	6.2	648	243
2	Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab	2909	13.01.2023	1185	H.O. Lab Patiala	238	230	243	2225	1445	158	58	1145	229	139	458	BDL	20.5	3.7	28.7	4.9	4.5	231	249
3	Point Source B/N	2914	07.12.2022	SW 491	ZO Lab Ldh	504	170	346	1007	765	250	62	392	101.6	33.5	458	BDL	20.1	5.2	28.5	9.74	0.97	187	41
4	Kali Bein into Beas	2913	12/12/22	588	ZO Lab, Jal	9	12	7	168	135	16	12	88	23	7.3	108	ND	1.4	1.2	2.0	0.16	0.22	16	2.3
5	Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar	4163	Drain was found dried, hence sample could not be collected																					
6	Tungdab drain at fatehgarh churian, Amritsar	2910	20/12/22	623	ZO Lab, Jal	580	388	265	1462	1126	448	120	322	80	30	510	ND	33	6.6	52	5.0	0.48	271	26
7	Hundiara drain before entering Pakistan	2907	20/12/22	624	ZO Lab, Jal	268	240	105	842	664	202	98	340	83	32	408	ND	28	5.4	42	4.8	0.42	90	14
8	Pathlawa Drain	2911	Drain was found dried, hence sample could not be collected																					
9	Ranjit Sagar Reservoir	2912	13/12/22	592	ZO Lab, Jal	BDL	BDL	2	96	78	9	7	80	20	7.3	62	ND	BDL	0.3	BDL	BDL	0.11	2.7	1.9
10	Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab	2908	05.01.2023	1101	H.O. Lab Patiala	188	240	226	798	681	101	49	727	141	91	305	BDL	9.0	4.6	12.6	4.0	4.2	109	81
11	Sagar Para Drain at village sagra dist.Patiala	4158	10.01.2023	1170	H.O. Lab Patiala	83	210	223	614	523	88	39	500	93	65	273	BDL	7.7	2.9	10.8	3.0	2.0	92	59
12	Confluence point of sukhana Choe with River Ghaggar, vill.Mubarkpur	4162	05.01.2023	1108	H.O. Lab Patiala	322	390	381	1381	1175	241	65	1176	261	127	349	BDL	19.2	5.3	26.9	5.2	4.3	277	135
13	Confluence point of Sarsa Nadi with river River Sutlej	4161	06.12.2022	SW 481	ZO Lab LDH	BDL	50	39	308	265	51	18	202	52	17.5	158	BDL	BDL	2.3	BDL	BDL	0.26	36	10.8

Note. 1. BDL means Below Method Detection Limit

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