

Analysis results of Surface water monitoring under NWMP for the month of April, 2021

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 | 12.04.21 | SW 1969 | ZO Lab Ldh | 8.2 | 7.0 | <1 | 260 | 110 | 20 | BDL | 0.17 | BDL | B | S |
| 2 | River Satluj at D/S NFL | 1380 | 12.04.21 | SW 1970 | ZO Lab Ldh | 9.1 | 10.2 | <1 | 270 | 100 | 20 | BDL | 0.19 | BDL | B | S |
| 3 | River Sutaj at 100m D/s PACL Nangal | 2915 | 12.04.21 | SW 1971 | ZO Lab Ldh | 9.2 | 10.1 | <1 | 272 | 93 | 18 | BDL | 0.20 | BDL | B | S |
| 4 | River Satluj at D/s Nangal | 1018 | 12.04.21 | SW 1972 | ZO Lab Ldh | 8.2 | 8.9 | <1 | 280 | 170 | 45 | BDL | 0.21 | BDL | B | S |
| 5 | River Satluj at Kiratpur Sahib | 1814 | 09.04.21 | SW 1968 | ZO Lab Ldh | 8.6 | 10.0 | <1 | 265 | 380 | 130 | BDL | 0.17 | 0.11 | B | S |
| 6 | Ropar Head-Works | 1019 | 09.04.21 | SW 1965 | ZO Lab Ldh | 8.3 | 8.4 | <1 | 288 | 930 | 370 | BDL | 0.27 | 0.16 | C | S |
| 7 | River Satluj D/S of Rishab- Paper Mills | 1293 | 09.04.21 | SW 1964 | ZO Lab Ldh | 8.9 | 8.2 | <1 | 294 | 940 | 460 | BDL | 0.28 | 0.31 | C | S |
| 8 | River Satluj U/S Buddha Nallah | 1690 | 14.04.21 | SW 1975 | ZO Lab Ldh | 8.3 | 6.7 | 2.1 | 337 | 2600 | 780 | 0.110 | 0.44 | 0.25 | C | S |
| 9 | River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana | 1020 | 14.04.21 | SW 1977 | ZO Lab Ldh | 7.6 | BDL | 44 | 890 | 23,00,000 | 11,00,000 | 0.465 | 2.28 | 0.51 | E | U |
| 10 | River Satluj at Boat Bridge, Dharamkot Nakodar Road | 1021 | 15.04.21 | SW 1979 | ZO Lab Ldh | 6.8 | BDL | 20 | 672 | 4,80,000 | 1,70,000 | BDL | 1.69 | 0.23 | E | U |
| 11 | River Satluj at D/s East Bein | 1381 | 15.04.21 | SW 1980 | ZO Lab Ldh | 7.0 | BDL | 24 | 697 | 8,40,000 | 3,10,000 | BDL | 1.70 | 0.46 | E | U |
| 12 | River Satluj at Harike | 1022 | 15.04.21 | SW 1981 | ZO Lab Ldh | 6.9 | 5.8 | 6.2 | 433 | 5800 | 1700 | BDL | 0.93 | 0.40 | D | U |
| 13 | Harike Lake D/S from canal | 1382 | 15/04/21 | 147 | ZO Lab, Jal | 7.7 | 5.9 | 3.8 | 340 | 4100 | 1700 | 0.039 | 1.83 | 0.22 | D | U |
| 14 | D/S Harike lake | 1297 | 15/04/21 | 148 | ZO Lab, Jal | 8.0 | 7.6 | 2.7 | 258 | 3300 | 1300 | 0.055 | 0.86 | 0.31 | C | S |
| 15 | U/S Hussainiwala H/W Ferozepur | 1691 | 15.04.21 | SW 1982 | ZO Lab Ldh | 7.2 | 6.4 | 1.8 | 318 | 1500 | 490 | 0.011 | 0.78 | 0.19 | C | S |
| 16 | D/S Hussainiwala H/W Ferozepur | 1692 | 15.04.21 | SW 1983 | ZO Lab Ldh | 7.0 | 7.3 | 2.0 | 294 | 1400 | 460 | BDL | 0.56 | 0.38 | 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, 2021

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 | 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 | 12.04.21 | SW 1969 | ZO Lab Ldh | <5 | BDL | BDL | 146 | 131 | 8 | 6 | 130 | 30.4 | 13.1 | 94 | BDL | BDL | 1.4 | BDL | BDL | 0.22 | 6.8 | 1.5 |
| 2 | River Satluj at D/S NFL | 1380 | 12.04.21 | SW 1970 | ZO Lab Ldh | <5 | BDL | BDL | 152 | 134 | 9 | 7 | 146 | 33.6 | 15.1 | 104 | BDL | BDL | 1.5 | BDL | BDL | 0.24 | 7.2 | 1.5 |
| 3 | River Sutlej at 100m D/s PACL Nangal | 2915 | 12.04.21 | SW 1971 | ZO Lab Ldh | <5 | BDL | BDL | 153 | 135 | 9 | 7 | 140 | 32 | 14.6 | 102 | BDL | BDL | 1.6 | BDL | BDL | 023 | 7.6 | 1.6 |
| 4 | River Satluj at D/s Nangal | 1018 | 12.04.21 | SW 1972 | ZO Lab Ldh | <5 | 2 | BDL | 157 | 137 | 11 | 9 | 134 | 31.2 | 13.6 | 106 | BDL | BDL | 1.5 | BDL | BDL | 0.24 | 8.2 | 1.4 |
| 5 | River Satluj at Kiratpur Sahib | 1814 | 09.04.21 | SW 1968 | ZO Lab Ldh | <5 | 1 | BDL | 163 | 140 | 14 | 10 | 132 | 30.4 | 13.6 | 110 | BDL | BDL | 1.4 | BDL | BDL | 0.23 | 6.9 | 1.5 |
| 6 | Ropar Head-Works | 1019 | 09.04.21 | SW 1965 | ZO Lab Ldh | <5 | 9 | 16 | 165 | 142 | 13 | 9 | 146 | 34.4 | 14.6 | 112 | BDL | BDL | 1.6 | BDL | BDL | 0.24 | 7.5 | 1.7 |
| 7 | River Satluj D/S of Rishab-Paper Mills | 1293 | 09.04.21 | SW 1964 | ZO Lab Ldh | <5 | 7 | 13 | 191 | 170 | 18 | 12 | 176 | 39.2 | 19.0 | 132 | BDL | BDL | 1.5 | BDL | BDL | 0.24 | 8.6 | 1.7 |
| 8 | River Satluj U/S Buddha Nallah | 1690 | 14.04.21 | SW 1975 | ZO Lab Ldh | 16 | 16 | 37 | 207 | 179 | 31 | 16 | 158 | 32.8 | 18.5 | 126 | BDL | 1.1 | 1.8 | 1.5 | 0.64 | 0.26 | 12.6 | 4.9 |
| 9 | River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana | 1020 | 14.04.21 | SW 1977 | ZO Lab Ldh | 207 | 120 | 220 | 548 | 432 | 167 | 34 | 226 | 54.4 | 21.9 | 230 | BDL | 18.6 | 3.5 | 25.6 | 6.8 | 0.46 | 79 | 12.2 |
| 10 | River Satluj at Boat Bridge, Dharamkot Nakodar Road | 1021 | 15.04.21 | SW 1979 | ZO Lab Ldh | 111 | 75 | 132 | 429 | 346 | 132 | 31 | 186 | 42.4 | 19.4 | 174 | BDL | 13.6 | 2.9 | 18.5 | 4.5 | 0.37 | 53 | 8.3 |
| 11 | River Satluj at D/s East Bein | 1381 | 15.04.21 | SW 1980 | ZO Lab Ldh | 126 | 70 | 118 | 421 | 332 | 122 | 34 | 190 | 43.2 | 19.9 | 186 | BDL | 12.2 | 2.9 | 16.9 | 4.0 | 0.35 | 54 | 6.7 |
| 12 | River Satluj at Harike | 1022 | 15.04.21 | SW 1981 | ZO Lab Ldh | 32 | 28 | 49 | 276 | 227 | 54 | 28 | 148 | 34.4 | 15.1 | 132 | BDL | 2.7 | 2.7 | 3.8 | 1.8 | 0.31 | 26 | 4.8 |
| 13 | Harike Lake D/S from canal | 1382 | 15/04/21 | 147 | ZO Lab, Jal | 24 | 11 | BDL | 239 | 185 | 50 | 38 | 100 | 30 | 6 | 88 | BDL | 1.3 | 5.6 | 2.9 | 0.10 | 0.21 | 42 | 4.0 |
| 14 | D/S Harike lake | 1297 | 15/04/21 | 148 | ZO Lab, Jal | 20 | 12 | BDL | 184 | 150 | 26 | 20 | 94 | 29 | 5 | 102 | BDL | 1.1 | 2.5 | 2.2 | 0.08 | 0.19 | 19 | 3.5 |
| 15 | U/S Hussainiwala H/W Ferozepur | 1691 | 15.04.21 | SW 1982 | ZO Lab Ldh | 14 | 16 | 24 | 192 | 169 | 21 | 15 | 138 | 29.6 | 15.6 | 120 | BDL | 1.1 | 1.7 | 1.5 | 0.54 | 0.26 | 21 | 2.8 |
| 16 | D/S Hussainiwala H/W Ferozepur | 1692 | 15.04.21 | SW 1983 | ZO Lab Ldh | 16 | 18 | 29 | 187 | 167 | 23 | 14 | 136 | 30.4 | 14.6 | 122 | BDL | 1.2 | 1.8 | 1.6 | 0.59 | 0.24 | 15 | 3.0 |

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, 2021 (Metal/Pesticides)

River Satluj

| S.N. | Point of Sample Collection | Code | Date of receipt in lab | Lab Sample No. | T.Cr (mg/l) | Fe (mg/l) | Ni (mg/l) | Zn (mg/l) | Pb (mg/l) | Cd (mg/l) | Cu (mg/l) | Hg (mg/l) | As (mg/l) |
|------|---|------|------------------------|----------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | River Satluj at U/S Nangal | 1017 | 12.04.21 | SW 1969 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2 | River Satluj at D/S NFL | 1380 | 12.04.21 | SW 1970 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 3 | River Sutej at 100m D/s PACL Nangal | 2915 | 12.04.21 | SW 1971 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4 | River Satluj at D/s Nangal | 1018 | 12.04.21 | SW 1972 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 5 | River Satluj at Kiratpur Sahib | 1814 | 09.04.21 | SW 1968 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 6 | Ropar Head-Works | 1019 | 09.04.21 | SW 1965 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 7 | River Satluj D/S of Rishab-Paper Mills | 1293 | 09.04.21 | SW 1964 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 8 | River Satluj U/S Buddha Nallah | 1690 | 14.04.21 | SW 1975 | BDL | BDL | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL |
| 9 | River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana | 1020 | 14.04.21 | SW 1977 | BDL | 1.27 | BDL | 0.06 | BDL | BDL | BDL | BDL | BDL |
| 10 | River Satluj at Boat Bridge, Dharamkot Nakodar Road | 1021 | 15.04.21 | SW 1979 | BDL | 0.54 | BDL | 0.03 | BDL | BDL | BDL | BDL | BDL |
| 11 | River Satluj at D/s East Bein | 1381 | 15.04.21 | SW 1980 | BDL | 0.36 | BDL |
| 12 | River Satluj at Harike | 1022 | 15.04.21 | SW 1981 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 13 | Harike Lake D/S from canal | 1382 | 15/04/21 | SW 147 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 14 | D/S Harike lake | 1297 | 15/04/21 | SW 148 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 15 | U/S Hussainiwala H/W Ferozepur | 1691 | 15.04.21 | SW 1982 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 16 | D/S Hussainiwala H/W Ferozepur | 1692 | 15.04.21 | SW 1983 | BDL | BDL | BDL | 0.03 | BDL | BDL | BDL | BDL | BDL |

Note. 1. BDL means Below Method Detection Limit

2. Pesticides i.e. Alpha HCH, Beta HCH, Gamma 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, 2021

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 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 |
|------|---|------|------------------------|----------------|--------------------------------|-----|---------|----------|-----------------|--------------------|--------------------|----------------|------|--------|-----------------------------|---------------------|
| 17 | River Beas at Talwara H/W | 1693 | 07/04/21 | SW 131 | ZO Lab, Jal | 8.1 | 7.6 | 1.2 | 236 | 140 | 61 | 0.046 | 0.57 | BDL | B | S |
| 18 | River Beas at U/S Pathankot | 1694 | 07/04/21 | SW 133 | ZO Lab, Jal | 7.5 | 7.4 | 1.5 | 241 | 430 | 68 | 0.016 | 0.47 | 0.29 | B | S |
| 19 | River Beas at D/S Pathankot | 1695 | 07/04/21 | SW 134 | ZO Lab, Jal | 8.0 | 7.1 | 1.7 | 217 | 460 | 78 | 0.030 | 0.24 | 0.36 | B | S |
| 20 | River Beas at Mirthal Bridge Gurdaspur (Pb.) | 1010 | 07/04/21 | SW 132 | ZO Lab, Jal | 8.2 | 7.7 | 1.6 | 254 | 170 | 92 | 0.072 | 0.66 | 0.14 | B | S |
| 21 | River Beas 1 Km D/S effluent discharge point at Mukerian | 1294 | 09/04/21 | SW 137 | ZO Lab, Jal | 8.2 | 7.4 | 1.8 | 229 | 480 | 120 | 0.080 | 0.36 | 0.40 | B | S |
| 22 | River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur | 4164 | 09/04/21 | SW 138 | ZO Lab, Jal | 7.7 | 7.5 | 1.5 | 230 | 460 | 110 | 0.024 | 0.31 | 0.14 | B | S |
| 23 | River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb) | 1011 | 09/04/21 | SW 139 | ZO Lab, Jal | 7.9 | 7.5 | 1.7 | 242 | 840 | 210 | 0.041 | 0.38 | 0.19 | C | S |
| 24 | River Beas at U/s Goindwal | 1696 | 15/04/21 | SW 144 | ZO Lab, Jal | 7.9 | 7.5 | 1.3 | 235 | 460 | 110 | 0.018 | 0.28 | 0.09 | B | S |
| 25 | River Beas at D/s Goindwal | 1012 | 15/04/21 | SW 145 | ZO Lab, Jal | 8.2 | 7.4 | 1.4 | 229 | 480 | 140 | 0.040 | 0.26 | 0.14 | B | S |
| 26 | Beas at Harike | 1697 | 15/04/21 | SW 146 | ZO Lab, Jal | 8.0 | 8.1 | 1.4 | 210 | 490 | 93 | 0.040 | 0.30 | 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 | 07/04/21 | SW 131 | ZO Lab Jal. | 14 | 13 | BDL | 144 | 120 | 14 | 12 | 84 | 29 | 3 | 75 | BDL | 0.7 | 0.8 | BDL | 0.06 | 0.11 | 12 | 2.6 |
| 18 | River Beas at U/S Pathankot | 1694 | 07/04/21 | SW 133 | ZO Lab Jal. | 15 | 27 | BDL | 154 | 129 | 16 | 14 | 85 | 28 | 4 | 88 | BDL | 0.8 | 1.1 | BDL | 0.05 | 0.14 | 10 | 2.4 |
| 19 | River Beas at D/S Pathankot | 1695 | 07/04/21 | SW 134 | ZO Lab Jal. | 17 | 39 | 10 | 135 | 104 | 15 | 17 | 80 | 26 | 4 | 79 | BDL | 0.6 | 1.0 | BDL | 0.07 | 0.18 | 4.9 | 2.0 |
| 20 | River Beas at Mirthal Bridge Gurdaspur (Pb.) | 1010 | 07/04/21 | SW 132 | ZO Lab Jal. | 17 | 18 | BDL | 158 | 127 | 16 | 12 | 82 | 29 | 3 | 90 | BDL | 0.9 | 1.1 | BDL | 0.05 | 0.16 | 14 | 2.5 |
| 21 | River Beas 1 Km D/S effluent discharge point at Mukerian | 1294 | 09/04/21 | SW 137 | ZO Lab, Jal | 16 | 14 | BDL | 148 | 125 | 16 | 18 | 85 | 29 | 3 | 94 | BDL | 1.0 | 1.8 | 1.6 | 0.09 | 0.16 | 7.7 | 2.5 |
| 22 | River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur | 4164 | 09/04/21 | SW 138 | ZO Lab, Jal | 15 | 17 | BDL | 152 | 129 | 15 | 12 | 87 | 30 | 3 | 92 | BDL | 0.8 | 1.4 | 1.5 | 0.07 | 0.12 | 6.6 | 2.3 |
| 23 | River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb) | 1011 | 09/04/21 | SW 139 | ZO Lab, Jal | 14 | 8 | BDL | 159 | 133 | 17 | 16 | 90 | 29 | 4 | 98 | BDL | 0.9 | 1.2 | 1.6 | 0.09 | 0.17 | 8.2 | 2.6 |
| 24 | River Beas at U/s Goindwal | 1696 | 15/04/21 | SW 144 | ZO Lab, Jal | 12 | 11 | BDL | 136 | 109 | 12 | 10 | 89 | 28 | 5 | 86 | BDL | 0.4 | 0.9 | BDL | 0.05 | 0.10 | 6.2 | 2.5 |
| 25 | River Beas at D/s Goindwal | 1012 | 15/04/21 | SW 145 | ZO Lab, Jal | 14 | 6 | BDL | 142 | 115 | 13 | 10 | 93 | 30 | 4 | 94 | BDL | 0.5 | 0.9 | BDL | 0.07 | 0.11 | 5.8 | 2.4 |
| 26 | Beas at Harike | 1697 | 15/04/21 | SW 146 | ZO Lab, Jal | 13 | 8 | BDL | 138 | 110 | 14 | 11 | 92 | 29 | 5 | 90 | BDL | 0.8 | 1.0 | 1.5 | 0.07 | 0.11 | 6.6 | 2.4 |

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, 2021 (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 | 07/04/21 | SW 131 | ZO Lab Jal. | BDL | BDL | BDL | 0.01 | BDL | BDL | BDL | BDL | BDL |
| 2 | River Beas at U/S Pathankot | 1694 | 07/04/21 | SW 133 | ZO Lab Jal. | BDL | BDL | BDL | 0.02 | BDL | BDL | BDL | BDL | BDL |
| 3 | River Beas at D/S Pathankot | 1695 | 07/04/21 | SW 134 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4 | River Beas at Mirthal Bridge Gurdaspur (Pb.) | 1010 | 07/04/21 | SW 132 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 5 | River Beas 1 Km D/S effluent discharge point at Mukerian | 1294 | 09/04/21 | SW 137 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 6 | River Beas at Bridge, village Bheate Patan Tehsil Batala Distt. Gurdaspur | 4164 | 09/04/21 | SW 138 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 7 | River Beas at G.T. Road, under Bridge Near Kapurthalla (Pb) | 1011 | 09/04/21 | SW 139 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 8 | River Beas at U/s Goindwal | 1696 | 15/04/21 | SW 144 | ZO Lab Jal. | BDL | BDL | BDL | 0.03 | BDL | BDL | BDL | BDL | BDL |
| 9 | River Beas at D/s Goindwal | 1012 | 15/04/21 | SW 145 | ZO Lab Jal. | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 10 | Beas at Harike | 1697 | 15/04/21 | SW 146 | ZO Lab Jal. | 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, Gamma HCH, Anilophos, Chloropyrifos, 4,4' DDT, OP-DDT, Endosulphan-1, Endosulphan-2, Dieldrin, Aldrin, Methyl Parathion & Malathion were BDL.

River Ravi**Analysis results of Surface water monitoring under NWMP for the month of April, 2021**

| 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 | 07/04/21 | 130 | ZO Lab, Jal | 8.2 | 7.9 | 1.1 | 245 | 110 | 45 | 0.040 | 0.74 | 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 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 |
|------|-----------------------------|------|------------------------|----------------|--------------------------------|----------|----------|----------|----------|----------|---------|----------------------|---------|---------|---------|-------------|-------------|-----------|-------------------------|----------|---------------------------|--------|---------|--------|
| 27 | Ravi at U/s of Madhopur H/W | 1097 | 07/04/21 | 130 | ZO Lab Jal. | 12 | 11 | BDL | 149 | 122 | 12 | 7 | 85 | 30 | 3 | 71 | BDL | 0.5 | 0.6 | BDL | BDL | BDL | 16 | 2.8 |

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, 2021 (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 | Ravi at U/s of Madhopur H/W | 1097 | 07/04/21 | 130 | 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, OP-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, 2021

River Ghaggar

| S.N. | Point of Sample Collection | Code | Lab Sample No. | Date of receipt in lab | 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 | Ghaggar at Mubarikpur Rest House | 1023 | SW 3976 | 6/4/21 | H/o Lab Patiala | 7.7 | 5.2 | 24 | 728 | 24000 | 4100 | 0.27 | 1.94 | 0.38 | D | U |
| 2 | Ghaggar at Bhankarpur | 1295 | SW 3977 | 6/4/21 | H/o Lab Patiala | 7.5 | 3.8 | 33 | 794 | 28000 | 4600 | 0.27 | 2.27 | 0.51 | E | U |
| 3 | Ghaggar at Chattbir | 1698 | SW 3978 | 6/4/21 | H/o Lab Patiala | 7.5 | 3.6 | 30 | 752 | 28000 | 4300 | 0.24 | 2.21 | 0.30 | E | U |
| 4 | Ghaggar at U/s Jharmal Nadi | 1702 | SW 3979 | 6/4/21 | H/o Lab Patiala | 7.3 | 3.7 | 13 | 578 | 22000 | 2700 | 0.10 | 1.87 | 0.34 | E | U |
| 5 | Ghaggar at D/s Jharmal Nadi | 1701 | SW 3980 | 6/4/21 | H/o Lab Patiala | 7.6 | 3.4 | 16 | 707 | 28000 | 3400 | 0.26 | 0.77 | 0.64 | E | U |
| 6 | Ghaggar at U/s Dhakanshu Nallah | 1699 | SW 3982 | 6/4/21 | H/o Lab Patiala | 7.8 | 3.4 | 14 | 672 | 22000 | 2600 | 0.33 | 1.87 | 0.64 | E | U |
| 7 | Ghaggar at D/s Dhakanshu Nallah | 1700 | SW 3983 | 6/4/21 | H/o Lab Patiala | 7.7 | 3.2 | 18 | 760 | 28000 | 4000 | 0.32 | 1.97 | 0.72 | E | U |
| 8 | Ghaggar at Rattanheri | 1473 | SW 3993 | 12/4/21 | H/o Lab Patiala | 7.6 | 1.2 | 39 | 1098 | 35000 | 4600 | 0.34 | 2.72 | 0.80 | E | U |
| 9 | Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain) | 4159 | SW 3994 | 12/4/21 | H/o Lab Patiala | 7.8 | 1.8 | 38 | 1065 | 35000 | 4300 | 0.47 | 2.67 | 0.91 | E | U |
| 10 | Ghaggar after mixing with Sagar Para drain (D/s Sagarpura Drain) | 4160 | SW 3995 | 12/4/21 | H/o Lab Patiala | 7.8 | 1.4 | 41 | 1148 | 35000 | 4700 | 0.45 | 2.72 | 1.00 | E | U |
| 11 | Ghaggar at Khanauri | 1024 | SW 3998 | 12/4/21 | H/o Lab Patiala | 7.8 | 1.9 | 31 | 883 | 28000 | 3900 | 0.43 | 2.52 | 1.31 | E | U |
| 12 | Ghaggar at Moonak | 1703 | SW 4000 | 12/4/21 | H/o Lab Patiala | 7.8 | 2.0 | 35 | 992 | 35000 | 4700 | 0.45 | 2.46 | 0.64 | E | U |
| 13 | Ghaggar at U/s Sardulgarh | 1705 | SW 4064 | 22/4/21 | H/o Lab Patiala | 7.5 | 5.9 | 9 | 512 | 14000 | 2100 | 0.16 | 1.23 | 0.39 | D | U |
| 14 | Ghaggar at D/s Sardulgarh | 1704 | SW 4065 | 22/4/21 | H/o Lab Patiala | 7.5 | 4.6 | 11 | 640 | 21000 | 2700 | 0.18 | 1.80 | 0.45 | D | U |

| S.N. | Point of Sample Collection | Code | Date of receipt in lab | Sample Collected & Analyzed by | COD mg/l | Turb NTU | TSS mg/l | TDS 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 | 6/4/21 | H/o Lab Patiala | 123 | 490 | 453 | 473 | 408 | 59 | 37 | 254 | 57 | 27 | 247 | BDL | 9.1 | 1.7 | 12.7 | 1.4 | 1.3 | 71 | 40 |
| 2 | Ghaggar at Bhankarpur | 1295 | 6/4/21 | H/o Lab Patiala | 167 | 470 | 334 | 516 | 439 | 70 | 35 | 292 | 69 | 29 | 251 | BDL | 13.7 | 1.4 | 19.2 | 2.7 | 1.3 | 89 | 41 |
| 3 | Ghaggar at Chattbir | 1698 | 6/4/21 | H/o Lab Patiala | 160 | 130 | 187 | 488 | 416 | 68 | 31 | 280 | 66 | 28 | 236 | BDL | 12.2 | 1.3 | 17.1 | 2.2 | 1.2 | 85 | 34 |
| 4 | Ghaggar at U/s Jharmal Nadi | 1702 | 6/4/21 | H/o Lab Patiala | 60 | 45 | 102 | 314 | 321 | 51 | 18 | 176 | 39 | 19 | 214 | BDL | 9.6 | 1.0 | 13.4 | 2.0 | 1.0 | 57 | 29 |
| 5 | Ghaggar at D/s Jharmal Nadi | 1701 | 6/4/21 | H/o Lab Patiala | 79 | 70 | 111 | 462 | 394 | 62 | 26 | 256 | 51 | 31 | 239 | BDL | 10.2 | 1.1 | 14.3 | 2.1 | 1.2 | 69 | 33 |
| 6 | Ghaggar at U/s Dhakanshu Nallah | 1699 | 6/4/21 | H/o Lab Patiala | 70 | 25 | 49 | 439 | 376 | 53 | 24 | 222 | 46 | 26 | 234 | BDL | 9.3 | 1.1 | 13.0 | 1.6 | 1.1 | 64 | 32 |
| 7 | Ghaggar at D/s Dhakanshu Nallah | 1700 | 6/4/21 | H/o Lab Patiala | 86 | 30 | 81 | 492 | 419 | 64 | 31 | 281 | 58 | 33 | 253 | BDL | 10.7 | 1.3 | 15.0 | 1.9 | 1.3 | 76 | 40 |
| 8 | Ghaggar at Rattanheri | 1473 | 12/4/21 | H/o Lab Patiala | 192 | 60 | 124 | 715 | 610 | 97 | 46 | 495 | 96 | 62 | 277 | BDL | 13.7 | 2.7 | 19.2 | 3.1 | 1.4 | 139 | 68 |
| 9 | Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain) | 4159 | 12/4/21 | H/o Lab Patiala | 186 | 55 | 119 | 693 | 590 | 96 | 43 | 476 | 93 | 59 | 272 | BDL | 13.4 | 2.9 | 18.8 | 3.0 | 1.4 | 134 | 64 |
| 10 | Ghaggar after mixing with Sagar Para drain (D/s Sagarpura Drain) | 4160 | 12/4/21 | H/o Lab Patiala | 198 | 60 | 128 | 746 | 634 | 100 | 54 | 524 | 99 | 67 | 284 | BDL | 12.8 | 3.2 | 17.9 | 3.2 | 1.6 | 143 | 72 |
| 11 | Ghaggar at Khanauri | 1024 | 12/4/21 | H/o Lab Patiala | 148 | 50 | 78 | 577 | 492 | 77 | 34 | 354 | 74 | 41 | 255 | BDL | 12.3 | 2.3 | 17.2 | 1.8 | 1.2 | 109 | 50 |
| 12 | Ghaggar at Moonak | 1703 | 12/4/21 | H/o Lab Patiala | 174 | 40 | 74 | 648 | 553 | 90 | 45 | 434 | 88 | 52 | 265 | BDL | 12.9 | 2.9 | 18.1 | 2.0 | 1.3 | 118 | 54 |
| 13 | Ghaggar at U/s Sardulgarh | 1705 | 22/4/21 | H/o Lab Patiala | 41 | 15 | 29 | 334 | 285 | 35 | 24 | 171 | 34 | 21 | 210 | BDL | 8.1 | 2.3 | 11.3 | 1.4 | 1.0 | 37 | 23 |
| 14 | Ghaggar at D/s Sardulgarh | 1704 | 22/4/21 | H/o Lab Patiala | 56 | 20 | 42 | 415 | 354 | 48 | 29 | 225 | 47 | 26 | 228 | BDL | 8.8 | 2.6 | 12.3 | 1.4 | 1.1 | 62 | 31 |

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)

Analysis results of Surface water monitoring under NWMP for the month of April, 2021 (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 | 6/4/21 | SW 3976 | BDL | BDL | 4.15 | 0.34 | BDL | BDL | BDL | BDL | BDL |
| 2 | Ghaggar at Bhankarpur | 1295 | 6/4/21 | SW 3977 | BDL | BDL | 6.31 | 0.54 | BDL | BDL | BDL | BDL | BDL |
| 3 | Ghaggar at Chattbir | 1698 | 6/4/21 | SW 3978 | BDL | BDL | 5.70 | 0.33 | BDL | BDL | BDL | BDL | BDL |
| 4 | Ghaggar at U/s Jharmal Nadi | 1702 | 6/4/21 | SW 3979 | BDL | BDL | 5.12 | 0.30 | BDL | BDL | BDL | BDL | BDL |
| 5 | Ghaggar at D/s Jharmal Nadi | 1701 | 6/4/21 | SW 3980 | BDL | BDL | 6.01 | 0.29 | BDL | BDL | BDL | BDL | BDL |
| 6 | Ghaggar at U/s Dhakanshu Nallah | 1699 | 6/4/21 | SW 3982 | BDL | BDL | 6.9 | 0.37 | BDL | BDL | BDL | BDL | BDL |
| 7 | Ghaggar at D/s Dhakanshu Nallah | 1700 | 6/4/21 | SW 3983 | BDL | BDL | 7.26 | 0.69 | BDL | BDL | BDL | BDL | BDL |
| 8 | Ghaggar at Rattanheri | 1473 | 12/4/21 | SW 3993 | BDL | BDL | 0.61 | 0.42 | BDL | BDL | BDL | BDL | BDL |
| 9 | Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain) | 4159 | 12/4/21 | SW 3994 | BDL | BDL | 0.59 | 0.36 | BDL | BDL | BDL | BDL | BDL |
| 10 | Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain) | 4160 | 12/4/21 | SW 3995 | BDL | BDL | 0.67 | 0.52 | BDL | BDL | BDL | BDL | BDL |
| 11 | Ghaggar at Khanauri | 1024 | 12/4/21 | SW 3998 | BDL | BDL | 0.75 | 0.35 | BDL | BDL | BDL | BDL | BDL |
| 12 | Ghaggar at Moonak | 1703 | 12/4/21 | SW 4000 | BDL | BDL | 0.76 | 0.37 | BDL | BDL | BDL | BDL | BDL |
| 13 | Ghaggar at U/s Sardulgarh | 1705 | 22/4/21 | SW 4064 | BDL | BDL | 0.58 | 0.25 | BDL | BDL | BDL | BDL | BDL |
| 14 | Ghaggar at D/s Sardulgarh | 1704 | 22/4/21 | SW 4065 | BDL | BDL | 0.64 | 0.34 | BDL | BDL | BDL | BDL | BDL |

Note. 1. BDL means Below Method Detection Limit

2. Pesticides i.e. Alpha HCH, Beta HCH, Gamma HCH, Anilophos, Chloropyrifos, 4,4' DDT, OP-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, 2021

Drains

| 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 | 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 | 23/4/21 | 4091 | H.O. Lab Patiala | 7.6 | BDL | 161 | 4696 | 430000 | 110000 | 0.19 | 7.00 | 0.64 | E | U |
| 2 | Tallewal Drain along with Lohgarh -Jalwana Link road near Shri Krishna rice mill Punjab | 2909 | 23/4/21 | 4092 | H.O. Lab Patiala | 7.3 | BDL | 113 | 2585 | 170000 | 46000 | 0.21 | 3.00 | 0.57 | E | U |
| 3 | Point Source B/N | 2914 | 14.04.21 | SW 1976 | ZO Lab Ldh | 7.5 | BDL | 175 | 1974 | 39,00,000 | 13,00,000 | 0.724 | 5.41 | 0.59 | E | U |
| 4 | Kali Bein into Beas | 2913 | 16/04/21 | 155 | ZO Lab, Jal | 7.0 | 2.8 | 5.8 | 342 | 4600 | 1400 | 0.001 | 1.45 | 0.64 | E | U |
| 5 | Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar | 4163 | Sample was not collected | | | | | | | | | | | | | |
| 6 | Tungdab drain at fatehgarh churian, Amritsar | 2910 | 15/04/21 | 149 | ZO Lab, Jal | 7.1 | BDL | 295 | 2080 | 1100000 | 790000 | 0.016 | 9.79 | 0.41 | E | U |
| 7 | Hundiara drain before entering Pakistan | 2907 | 15/04/21 | 150 | ZO Lab, Jal | 8.0 | BDL | 196 | 1320 | 790000 | 330000 | 0.950 | 7.55 | 0.58 | E | U |
| 8 | Pathlawa Drain | 2911 | Sample was not collected | | | | | | | | | | | | | |
| 9 | Ranjit Sagar Reservoir | 2912 | 07/04/21 | 129 | Z.O. Lab Jalandhar | 7.9 | 8.0 | BDL (<1) | 234 | 110 | 40 | 0.027 | 0.77 | BDL | B | S |
| | Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab | 2908 | 6/4/21 | 3981 | H.O. Lab Patiala | 7.9 | BDL | 38 | 1070 | 280000 | 46000 | 0.30 | 2.05 | 1.21 | E | U |
| 11 | Sagar Para Drain at village sagra dist.Patiala | 4158 | 12/4/21 | 3996 | H.O. Lab Patiala | 7.7 | 1.0 | 41 | 1183 | 46000 | 6100 | 0.26 | 2.69 | 0.58 | E | U |
| 12 | Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur | 4162 | 6/4/21 | 3988 | H.O. Lab Patiala | 7.4 | 1.7 | 64 | 1275 | 280000 | 84000 | 0.27 | 3.04 | 0.48 | E | U |
| 13 | Confluence point of Sarsa Nadi with river Satluj | 4161 | 09.04.21 | SW 1966 | ZO Lab Ldh | 8.6 | 10.3 | <1 | 396 | 580 | 110 | BDL | 0.65 | 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 April, 2021

Drains

| 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.Alk n 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 | Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab | 2906 | 23/4/21 | 4091 | H.O. Lab Patiala | 688 | 170 | 312 | 3053 | 2597 | 768 | 259 | 1641 | 324 | 202 | 923 | BDL | 7.4 | 5.7 | 10.4 | 6.4 | 3.4 | 652 | 199 |
| 2 | Tallewal Drain along with Lohgarh –Jalwana Link road near Shri Krishna rice mill Punjab | 2909 | 23/4/21 | 4092 | H.O. Lab Patiala | 482 | 80 | 204 | 1680 | 1428 | 248 | 117 | 1465 | 278 | 187 | 413 | BDL | 21.4 | 4.8 | 30.0 | 5.3 | 2.7 | 264 | 287 |
| 3 | Point Source B/N | 2914 | 14.04.21 | SW 1976 | ZO Lab Ldh | 610 | 180 | 540 | 1165 | 883 | 396 | 61 | 342 | 80.8 | 34.0 | 442 | BDL | 36.2 | 5.4 | 48.4 | 12.6 | 0.94 | 230 | 27 |
| 4 | Kali Bein into Beas | 2913 | 16/04/21 | 155 | ZO Lab, Jal | 28 | 29 | 13 | 213 | 168 | 37 | 26 | 94 | 27 | 6 | 100 | BDL | 1.0 | 2.3 | 1.9 | 0.17 | 0.20 | 32 | 12 |
| 5 | Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar | 4163 | Sample was not collected | | | | | | | | | | | | | | | | | | | | | |
| 6 | Tungdab drain at fatehgarh churian, Amritsar | 2910 | 15/04/21 | 149 | Z.O. Lab Jalandhar | 494 | 456 | 124 | 1215 | 840 | 210 | 118 | 271 | 79 | 18 | 644 | BDL | 31 | 3.7 | 56 | 3.9 | 0.71 | 371 | 22 |
| 7 | Hundiara drain before entering Pakistan | 2907 | 15/04/21 | 150 | Z.O. Lab Jalandhar | 268 | 315 | 56 | 890 | 605 | 146 | 94 | 197 | 52 | 16 | 420 | BDL | 19 | 2.6 | 28 | 2.3 | 0.42 | 243 | 38 |
| 8 | Pathlawa Drain | 2911 | Drain was found dried, hence sample could not be collected | | | | | | | | | | | | | | | | | | | | | |
| 9 | Ranjit Sagar Reservoir | 2912 | 07/04/21 | 129 | Z.O. Lab Jalandhar | BDL | 7 | BDL | 135 | 108 | 10 | 8 | 84 | 28 | 3 | 76 | BDL | 0.6 | 0.7 | BDL | BDL | BDL | 16 | 2.6 |
| 10 | Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab | 2908 | 6/4/21 | 3981 | H.O. Lab Patiala | 175 | 25 | 67 | 698 | 594 | 119 | 51 | 527 | 112 | 60 | 249 | BDL | 6.7 | 1.3 | 9.4 | 3.8 | 1.4 | 108 | 64 |
| 11 | Sagar Para Drain at village sagra dist.Patiala | 4158 | 12/4/21 | 3996 | H.O. Lab Patiala | 194 | 20 | 62 | 770 | 655 | 104 | 55 | 557 | 106 | 71 | 291 | BDL | 8.7 | 2.6 | 12.2 | 3.1 | 1.4 | 146 | 74 |
| 12 | Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur | 4162 | 6/4/21 | 3988 | H.O. Lab Patiala | 286 | 90 | 157 | 829 | 706 | 128 | 66 | 606 | 124 | 72 | 296 | BDL | 18.1 | 3.6 | 25.3 | 3.6 | 2.0 | 172 | 49 |
| 13 | Confluence point of Sarsa Nadi with river Satluj | 4161 | 09.04.21 | SW 1966 | ZO Lab Ldh | <5 | 7 | BDL | 224 | 194 | 15 | 11 | 184 | 41.6 | 19.4 | 130 | BDL | BDL | 1.5 | BDL | BDL | 0.26 | 20.3 | 4.1 |

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, 2021 (Metal/Pesticides)

| S.N. | Point of Sample Collection | Code | Date of receipt in lab | Lab Code | Fe mg/l | Zn mg/l | T.Cr mg/l | Ni mg/l | Cu mg/l | Pb mg/l | Cd mg/l | As mg/l | Hg mg/l |
|------|--|------|------------------------|----------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|
| 1 | Dhanula Drain falling into Lasara drain, Near village, Ghunas Punjab | 2906 | 23/4/21 | SW 4091 | BDL | BDL | 7.22 | 0.55 | BDL | BDL | BDL | BDL | BDL |
| 2 | Tallewal Drain along with Lohgarh – Jalwana Link road near Shri Krishna rice mill Punjab | 2909 | 23/4/21 | SW 4092 | BDL | BDL | 4.12 | 0.29 | BDL | BDL | BDL | BDL | BDL |
| 3 | Point Source B/N | 2914 | 14.04.21 | SW 1976 | 5.84 | 0.26 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4 | Kali Bein into Beas | 2913 | 16/04/21 | SW 155 | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 5 | Outfall of Nag Kalan drain into Tung Dhab drain at Majitha road, Amritsar | 4163 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 6 | Tungdab drain at fatehgarh churian, Amritsar | 2910 | 15/04/21 | SW 149 | 4.26 | 1.43 | BDL | BDL | 0.32 | 0.17 | BDL | BDL | BDL |
| 7 | Hundiara drain before entering Pakistan | 2907 | 15/04/21 | SW 150 | 0.21 | 0.45 | BDL | BDL | 0.07 | BDL | BDL | BDL | BDL |
| 8 | Pathlawa Drain | 2911 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 9 | Ranjit Sagar Reservoir | 2912 | 07/04/21 | SW 129 | BDL | 0.04 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 10 | Outlet Of Nadiala Drain into Dhakanshu Nallah, Punjab | 2908 | 6/4/21 | SW 3981 | BDL | BDL | 7.18 | 0.38 | BDL | BDL | BDL | BDL | BDL |
| 11 | Sagar Para Drain at village sagra dist.Patiala | 4158 | 12/4/21 | SW 3996 | BDL | BDL | 0.70 | 0.39 | BDL | BDL | BDL | BDL | BDL |
| 12 | Confluence point of sukhana Choe with River Ghaggar,vill.Mubarkpur | 4162 | 6/4/21 | SW 3988 | BDL | BDL | 7.25 | 0.74 | BDL | BDL | BDL | BDL | BDL |
| 13 | Confluence point of Sarsa Nadi with river Satluj | 4161 | 09.04.21 | SW 1966 | 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, Gamma HCH, Anilophos, Chloropyrifos, 4,4' DDT, OP-DDT, Endosulphan-1, Endosulphan-2, Dieldrin, Aldrin, Methyl Parathion & Malathion were BDL.