## Quality of Water of Polluted River stretches in Punjab for the month of April, 2021

## Beas (along Mukerian) : Priority V

| S.N. | Point of Sample Collection | Code | Date of receipt in lab | $\begin{aligned} & \text { Lab Sample } \\ & \text { No. } \end{aligned}$ | Sample Collected \& Analyzed by | pH | $\begin{gathered} \hline \text { DO } \\ \text { mg/l } \end{gathered}$ | $\begin{gathered} \text { BOD } \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \text { Cond } \\ \mu \mathrm{s} / \mathbf{C m} \end{gathered}$ | $\begin{aligned} & \text { T. Coli } \\ & \text { MPN/ } \\ & \text { 100mp } \end{aligned}$ | $\begin{aligned} & \text { F. Coli } \\ & \text { MPN } \\ & \text { 100ml } \end{aligned}$ | Free Amm. mg/l | SAR | $\underset{\mathrm{mg} / \mathrm{l}}{\mathrm{~B}}$ | Quality of water as per DBU | Water Quality Index |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 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 |


| S.N. | Point of Sample Collection | Code | $\begin{gathered} \text { Date of } \\ \text { receipt in } \\ \text { lab } \end{gathered}$ | $\begin{gathered} \text { Lab } \\ \text { Sample } \\ \text { No. } \end{gathered}$ | Sample Collected \& Analyzed by | $\begin{aligned} & \text { COD } \\ & \mathrm{mg} / \mathrm{l} \end{aligned}$ | $\begin{aligned} & \hline \text { Turb } \\ & \text { NTU } \end{aligned}$ | $\begin{aligned} & \hline \text { TSS } \\ & \mathrm{mg} / \mathrm{l} \end{aligned}$ | $\begin{aligned} & \hline \text { TDS } \\ & \mathrm{mg} / \mathrm{l} \end{aligned}$ | $\begin{aligned} & \hline \text { FDS } \\ & \mathrm{mg} / \mathrm{l} \end{aligned}$ | $\underset{\mathrm{cl} / \mathrm{l}}{\mathrm{Cl}}$ | $\begin{gathered} \hline \mathrm{SO}_{4} \\ \mathrm{Mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \hline \mathrm{TH} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Ca} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Mg} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \hline \text { T.Alkn } \\ \text { mg/l } \end{gathered}$ | $\begin{gathered} \text { P.Alkn } \\ \text { mg/l } \end{gathered}$ | $\begin{gathered} \hline \mathrm{AmnN} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \hline \text { NO3- } \\ \text { N } \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \text { TKN } \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{aligned} & \hline \mathrm{PO}_{4} \mathrm{as} \\ & \mathbf{P} \mathbf{~ m g} / \mathrm{l} \end{aligned}$ | $\underset{\mathrm{mg} / \mathrm{l}}{\mathrm{~F}}$ | $\begin{gathered} \mathrm{Na} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\underset{\mathrm{mg} / \mathrm{l}}{\mathrm{~K}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 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 |

Note. 1. BDL means Below Method Detection Limit
2. DBU means Designated Best Use (Class-A, B, C,D \& E

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

| S.N. | Point of Sample Collection | Code | Date of receipt in lab | $\begin{aligned} & \text { Lab Sample } \\ & \text { No. } \end{aligned}$ | Sample Collected \& Analyzed by | $\begin{aligned} & \hline \text { T.Cr } \\ & \mathrm{mg} / \mathrm{l} \end{aligned}$ | $\begin{gathered} \mathrm{Ni} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Fe} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Zn} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Cu} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Pb} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | $\begin{gathered} \mathrm{Cd} \\ \mathrm{mg} / \mathrm{l} \end{gathered}$ | As mg/l | Hg mg/l |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 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 |

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

