

**WATER QUALITY DATA UNDER NWMP, MIZORAM**  
**MONITORING PERIOD: JULY, 2014**

| Sl. No. | PARAMETER   | RESULT                                    |  |  |  |                                     |  |
|---------|---|---|--|--|--|-------------------------------------|--|
|         |   | STATION CODE: 2050<br>Tlawng Upper Stream | STATION CODE: 2051<br>Tlawng Lower Stream      | STATION CODE: 2052<br>Tuirial Upper Stream | STATION CODE: 2053<br>Tuirial Lower Stream | STATION CODE: 2054<br>Ramhlun North | STATION CODE: 2055<br>Mission Vengthlang |
| 1       | Weather   | Clear                                     | Clear  | Clear                                      | Clear                                      | Clear                               | Clear                                    |
| 2       | Depth of water body                                       | 3 meter                                   | 2.5 meter                                      | 0.6 meter                                  | 0.8 meter                                  | 1 meter                             | 1.3 meter                                |
| 3       | Colour  | Pale yellow                               | Pale yellow                                    | Colourless                                 | Colourless                                 | Colourless                          | Pale yellow                              |
| 4       | Odour   | Odourless                                 | Odourless                                      | Odourless                                  | Odourless                                  | Odourless                           | Odourless                                |
| 5       | Velocity of Flow  | 1.3 m/s                                   | 1.3 m/s  | 0.5 m/s                                    | 0.6 m/s                                    | N/A                                 | N/A                                      |
| 6       | Water Temperature   | 25°C                                      | 25°C   | 26°C                                       | 26°C                                       | 21°C                                | 21°C                                     |
| 7       | Dissolved Oxygen  | 6.7 mg/L                                  | 7.2 mg/L                                       | 7.2 mg/L                                   | 7.7 mg/L                                   | 5.3 mg/L                            | 2.7 mg/L                                 |
| 8       | Major polluting sources                                   | Agriculture                               | Agriculture                                    | Agriculture                                | Agriculture                                | Domestic                            | Domestic                                 |
| 9       | Used of water at or in down stream of monitoring stations | Used as public water supply               | Water treatment plant located near the station | -  | -  | Washing                             | Washing                                  |

**CORE PARAMETERS**

|    |  |            |            |            |            |            |            |
|----|--|------------|------------|------------|------------|------------|------------|
| 10 | pH                                     | 7          | 7          | 7          | 7          | 7          | 7          |
| 11 | Conductivity                           | 613 us/cm  | 605 us/cm  | 419 us/cm  | 547 us/cm  | 496 us/cm  | 405 us/cm  |
| 12 | Biochemical Oxygen Demand              | 1.5 mg/L   | 1.7 mg/L   | 1.4 mg/L   | 1.6 mg/L   | 1.2 mg/L   | 1.2 mg/L   |
| 13 | Nitrogen- Nitrite (N-NO <sub>2</sub> ) | 0.146 mg/L | 0.141 mg/L | 0.136 mg/L | 0.112 mg/L | 0.140 mg/L | 0.153 mg/L |
| 14 | Faecal Coliform                        | NA         | NA         | NA         | NA         | NA         | NA         |
| 15 | Total Coliform                         | NA         | NA         | NA         | NA         | NA         | NA         |

**GENERAL PARAMETERS**

|    |   |            |            |            |            |            |            |
|----|---|------------|------------|------------|------------|------------|------------|
| 16 | Turbidity                                   | 0 NTU      | 0 NTU      | 0 NTU      | 0 NTU      | 0 NTU      | 0 NTU      |
| 17 | Carbonate as CaCO <sub>3</sub> (Alkalinity) | 42.5 mg/L  | 42.5 mg/L  | 25.5 mg/L  | 30.6 mg/L  | 25.5 mg/L  | 170 mg/L   |
| 18 | Chloride                                    | 7.5 mg/L   | 6.8 mg/L   | 5.3 mg/L   | 3.7 mg/L   | 7.5 mg/L   | 60.6 mg/L  |
| 19 | Nitrogen Ammonia (N-NH <sub>3</sub> )       | 0.258 mg/L | 0.407 mg/L | 0.422 mg/L | 0.304 mg/L | 0.148 mg/L | 0.300 mg/L |
| 20 | Total hardness as CaCO <sub>3</sub>         | 30 mg/L    | 24 mg/L    | 30 mg/L    | 34 mg/L    | 28 mg/L    | 164 mg/L   |
| 21 | Calcium                                     | 7.2 mg/L   | 4.0 mg/L   | 5.6 mg/L   | 7.2 mg/L   | 6.4 mg/L   | 53.6 mg/L  |
| 22 | Magnesium                                   | 2.8 mg/L   | 3.3 mg/L   | 3.8 mg/L   | 3.8 mg/L   | 2.8 mg/L   | 7.2 mg/L   |
| 23 | Sodium                                      | NA         | NA         | NA         | NA         | NA         | NA         |
| 24 | Total Dissolved Solids                      | 140 mg/L   | 160 mg/L   | 150 mg/L   | 190 mg/L   | 90 mg/L    | 110 mg/L   |
| 25 | Total Suspended Solids                      | 70 mg/L    | 90 mg/L    | 70 mg/L    | 80 mg/L    | 70 mg/L    | 50 mg/L    |
| 26 | Phosphate, PO <sub>4</sub> <sup>3-</sup>    | 0.116 mg/L | 0.085 mg/L | 0.133 mg/L | 0.102 mg/L | 0.145 mg/L | 0.097 mg/L |