

Annex E4.2.1 Results of Water Quality Analysis for TELANG (Lowland Area)

| Parameter | Unit | MARGA RAHAYU VILLAGE | | | | | SUMBER MULYO VILLAGE | | | | | TELANG JAYA VILLAGE | | | | |
|----------------|------------|----------------------|-----------------|-----------------------|-----------------------|-------------------------------|----------------------|-----------------|--------------------------------------|--|--|---------------------|-----------------|--------|--------|--------------------------|
| | | I | II | III | IV | V | I | II | III | IV | V | I | II | III | IV | V |
| | | PRIMARY CANAL | SECONDARY CANAL | POND, BLOCK 2 RT 1/73 | WELL, BLOCK 2 RT 1/73 | WATER STORAGE BLOCK 2 RT 1/73 | PRIMARY CANAL | SECONDARY CANAL | POND IN FRONT OF MR PURWANTO'S HOUSE | POND IN THE BACK OF VILLAGE HEAD HOUSE | WATER STORAGE (TEMPAYAN) AT VILLAGE HEAD | PRIMARY CANAL | SECONDARY CANAL | WELL 1 | WELL 2 | WATER STORAGE (TEMPAYAN) |
| TSS | mg/l | 72 | - | 188 | 9.2 | 18.7 | 366.4 | 101 | 71 | 126 | 19.5 | 246.5 | 607.8 | 122 | 81 | 23.4 |
| DTS | mg/l | 410 | - | 1440 | 610 | 32 | 965.5 | 930 | 1060 | 431.2 | 172.2 | 216 | 167.5 | 396.2 | 575.2 | 110.5 |
| TURBIDITY | NTU | 51 | - | 127 | 5 | 9 | 212.5 | 76 | 52 | 96 | 12 | 196 | 428 | 91 | 49 | 11 |
| CONDUCTIVITY | mS/m | 83 | - | 279 | 122 | 6.41 | 156 | 187 | 191 | 96 | 36 | 42 | 33 | 76 | 74 | 21 |
| pH | - | 7 | - | 3.4 | 3.75 | 5.06 | 6.56 | 6.7 | 6.02 | 6.45 | 6.87 | 6.34 | 6.15 | 5.98 | 3.56 | 6.44 |
| Ammonium (NH3) | mg/l | 0.05 | - | 0.15 | 0.18 | 0.06 | 0.05 | 0.21 | 0.35 | 0.65 | 0.11 | 0.12 | 0.22 | 0.31 | 0.15 | 0.09 |
| Manganese (Mn) | mg/l | 0.03 | - | 0.09 | 0.03 | 0.01 | 0.12 | 0.05 | 0.06 | 0.06 | 0.02 | 0.03 | 0.06 | 0.04 | 0.08 | 0.01 |
| Iron (Fe) | mg/l | 0.7 | - | 1.65 | 0.075 | 0.12 | 4.2 | 1.45 | 1.31 | 1.7 | 0.16 | 1.8 | 3.6 | 2.1 | 2.8 | 0.3 |
| Sulphate (SO4) | mg/l | 135.5 | - | 215 | 366.8 | 11.4 | 495 | 561 | 423 | 142.5 | 7.5 | 185.6 | 134.5 | 295.5 | 361 | 22.6 |
| Chloride (Cl) | mg/l | 167 | - | 1223 | 596 | 28.3 | 454.4 | 447 | 674.5 | 280.45 | 53.25 | 106.5 | 71 | 148.8 | 142 | 56.86 |
| DO (O2) | mg/l | 4.0 | - | 2.5 | 5.0 | 6.0 | 3.5 | 3.5 | 3.5 | 4.0 | 6.0 | 4.0 | 4.0 | 5.0 | 5.0 | 6.0 |
| MPN COLIFORM | per 100 ml | 240 | 240 | <3 | 93 | >1100 | >1100 | >1100 | >1100 | >1100 | >1100 | 23 | 23 | 23 | 3 | 150 |

| Parameter | Unit | Saleh Jaya Village | | | | | Saleh Agung Village | | | | | Sri Mulyo Village | | | | |
|----------------|------------|--------------------|-----------------|--------|--------|--------------------------|---------------------|-----------------|------------|-------|---------------|-------------------|-----------------|-------|------------------------|---------------------|
| | | I | II | III | IV | V | I | II | III | IV | V | I | II | III | IV | V |
| | | Primary Canal | Secondary Canal | Well 1 | Well 2 | Water Storage (tempayan) | Primary Canal | Secondary Canal | Bored Well | Well | Water Storage | Primary Canal | Secondary Canal | Pond | Well Mr. Machmud House | Well Mr. Guru House |
| TSS | mg/l | 137 | 39 | 13.7 | 79.2 | 16 | 60 | 54 | 375 | 702 | 26 | 164 | 164 | 1425 | 416 | 76.6 |
| DTS | mg/l | 684 | 861 | 425.8 | 808.8 | 88.2 | 290 | 208 | 700 | 812 | 203 | 120 | 120 | 990 | 620 | 362.2 |
| TURBIDITY | NTU | 91.5 | 21 | 60 | 55 | 7.5 | 41 | 37 | 286 | 544 | 14 | 105 | 105 | 940 | 298 | 49 |
| CONDUCTIVITY | | 138.2 | 151.5 | 74.8 | 119.1 | 17.72 | 59 | 39 | 137 | 162 | 41 | 24 | 24 | 192 | 103 | 71 |
| pH | - | 5.2 | 5.05 | 3.04 | 2.91 | 6.56 | 6 | 6.4 | 6.1 | 6.3 | 7.01 | 6.96 | 6.8 | 2.7 | 5.81 | 3.21 |
| Ammonium (NH3) | mg/l | 0.5 | 0.062 | 0.13 | 0.62 | 0.11 | 0.075 | 0.095 | 0.1 | 0.15 | 0.05 | 0.27 | 0.025 | 0.2 | 0.71 | 0.65 |
| Manganese (Mn) | mg/l | 0.5 | 0.065 | 0.09 | 0.08 | 0.006 | 0.08 | 0.01 | 0.08 | 0.11 | 0.000 | 0.02 | 0.05 | 0.45 | 0.05 | 0.11 |
| Iron (Fe) | mg/l | 0.82 | 0.1 | 3.9 | 4.8 | 0.05 | 0.52 | 0.24 | 4.5 | 5.4 | 0.11 | 0.24 | 1.4 | 7 | 1.9 | 2.1 |
| Sulphate (SO4) | mg/l | 670 | 822.7 | 395 | 365 | 9.6 | 221.6 | 134.87 | 452 | 496 | 12.5 | 10 | 46 | 221.5 | 275 | 315 |
| Chloride (Cl) | mg/l | 355.6 | 390.5 | 142 | 426 | 42.6 | 78.1 | 56.8 | 256.6 | 269.8 | 24.85 | 42.6 | 35.5 | 717.1 | 216.5 | 152 |
| DO (O2) | mg/l | 3.0 | 3.0 | 4.0 | 3.0 | 6.0 | 4.5 | 5.0 | 3.0 | 3.0 | 8.0 | 6.0 | 4.5 | 1.5 | 8.5 | 5.0 |
| MPN COLIFORM | per 100 ml | <3 | 9 | <3 | <3 | 9.1 | <3 | 23 | <3 | 23 | <3 | 480 | >1100 | <3 | >1100 | 460 |