



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT  
DIREKTORAT JENDERAL SUMBER DAYA AIR  
BALAI BESAR WILAYAH SUNGAI CITANDUY

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Penentuan Status Mutu Air Kelas II dengan Metoda Indeks Pencemaran

Sungai : Cimuntur  
Lokasi Titik Pengamatan : Batununggul  
Posisi Geografis - Lintang - Bujur : -7.3453 108.4946  
Tanggal : 02 Juni 2021

| No                                                          | Parameter      | Satuan | Ci     | L <sub>ij</sub> | C <sub>i</sub> /L <sub>ij</sub> | (C <sub>i</sub> /L <sub>ij</sub> ) <sub>baru</sub> |
|-------------------------------------------------------------|----------------|--------|--------|-----------------|---------------------------------|----------------------------------------------------|
| 1                                                           | Temperatur     | °C     | 26.80  | + 3             |                                 |                                                    |
| 2                                                           | DO             | mg/l   | 9.60   | 4               | 2.40                            | (0.40)                                             |
| 3                                                           | pH             | mg/l   | 6.40   | 6 - 9           | 0.85                            | 0.73                                               |
| 4                                                           | DHL            | umhos  | -      |                 |                                 |                                                    |
| 5                                                           | Kekeruhan      | mg/l   | 14.30  |                 |                                 |                                                    |
| 6                                                           | BOD            | mg/l   | 1.80   | 3               | 0.60                            | 0.60                                               |
| 7                                                           | COD            | mg/l   | 20.00  | 25              | 0.80                            | 0.80                                               |
| 8                                                           | TSS            | mg/l   | -      | 50              | -                               | -                                                  |
| 9                                                           | Total Nitrogen | mg/l   | -      |                 |                                 |                                                    |
| 10                                                          | Amoniak        | mg/l   | -      |                 |                                 |                                                    |
| 11                                                          | Nitrit         | mg/l   | 0.02   | 0.06            | 0.33                            | 0.33                                               |
| 12                                                          | Nitrat         | mg/l   | 0.08   | 10              | 0.01                            | 0.01                                               |
| 13                                                          | Total Fosfat   | mg/l   | -      | 0.2             | -                               | -                                                  |
| 14                                                          | Ortho Fosfat   | mg/l   | -      |                 |                                 |                                                    |
| 15                                                          | Deterjen       | mg/l   | 100.00 | 200             | 0.50                            | 0.50                                               |
| 16                                                          | Minyak Lemak   | mg/l   | -      | 1000            | -                               | -                                                  |
| 17                                                          | Phenol         | mg/l   | -      | 1               | -                               | -                                                  |
| 18                                                          | Fecal Coliform | mg/l   | -      | 1000            | -                               | -                                                  |
| 19                                                          | Total Coliform | mg/l   | -      | 5000            | -                               | -                                                  |
| 20                                                          | Mercury        | mg/l   | -      | 0.002           | -                               | -                                                  |
| 21                                                          | Cadmium        | mg/l   | 0.004  | 0.01            | 0.40                            | 0.40                                               |
| 22                                                          | Chromium       | mg/l   | -      | 0.05            | -                               | -                                                  |
| 23                                                          | Timbal         | mg/l   | -      | 0.03            | -                               | -                                                  |
| 24                                                          | Tembaga        | mg/l   | 0.02   | 0.02            | 0.80                            | 0.80                                               |
| 25                                                          | Besi           | mg/l   | 0.20   |                 |                                 |                                                    |
| 26                                                          | Mangan         | mg/l   | 0.05   |                 |                                 |                                                    |
| 27                                                          | Seng           | mg/l   | 0.04   | 0.05            | 0.80                            | 0.80                                               |
| 28                                                          | Chlorida       | mg/l   | -      |                 |                                 |                                                    |
| 29                                                          | Boron          | mg/l   | -      | 1               | -                               | -                                                  |
| 30                                                          | Sulfida        | mg/l   | 0.02   | 0.002           | 10.00                           | 6.00                                               |
| 31                                                          | Sulfat         | mg/l   | -      |                 |                                 |                                                    |
| 32                                                          | Fluorida       | mg/l   | 0.08   | 1.5             | 0.05                            | 0.05                                               |
| 33                                                          | Selenium       | mg/l   | -      | 0.05            | -                               | -                                                  |
| 34                                                          | Sianida        | mg/l   | -      | 0.02            | -                               | -                                                  |
| 35                                                          | Arsen          | mg/l   | -      | 1               | -                               | -                                                  |
| Maksimum = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>M</sub>  |                |        |        |                 |                                 | 6.00                                               |
| Rata-rata = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>R</sub> |                |        |        |                 |                                 | 0.43                                               |
| Nilai PIj                                                   |                |        |        |                 |                                 | 4.25                                               |
| Status Mutu Air                                             |                |        |        |                 |                                 | Cemar Ringan                                       |