



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 : Citanduy  
Lokasi Titik Pengamatan : Gunung Cupu  
Posisi Geografis - Lintang - Bujur : -7,2999 108,2276  
Tanggal : 08 September 2020

| No  | Parameter      | Satuan | C <sub>i</sub> | L <sub>ij</sub> | C <sub>i</sub> /L <sub>ij</sub> | (C <sub>i</sub> /L <sub>ih</sub> ) <sub>baru</sub> |
|---|----------------|--------|----------------|-----------------|---------------------------------|--|
| 1   | Temperatur     | °C     | 28,50          | + 3             |                                 |  |
| 2   | DO             | mg/l   | 27,90          | 4               | 6,98                            | 1,74   |
| 3   | pH             | mg/l   | 7,00           | 6 - 9           | 0,93                            | -  |
| 4   | DHL            | umhos  | 21,20          |                 |                                 |  |
| 5   | Kekeruhan      | mg/l   | 5,05           |                 |                                 |  |
| 6   | BOD            | mg/l   | 5,00           | 3               | 1,67                            | 2,11   |
| 7   | COD            | mg/l   | 10,70          | 25              | 0,43                            | 0,43   |
| 8   | TSS            | mg/l   | 5,00           | 50              | 0,100                           | 0,100  |
| 9   | Total Nitrogen | mg/l   |                |                 |                                 |  |
| 10  | Amoniak        | mg/l   |                |                 |                                 |  |
| 11  | Nitrit         | mg/l   |                | 0,06            | -                               | -  |
| 12  | Nitrat         | mg/l   | 0,20           | 10              | 0,02                            | 0,02   |
| 13  | Total Fosfat   | mg/l   |                | 0,2             | -                               | -  |
| 14  | Ortho Fosfat   | mg/l   |                |                 |                                 |  |
| 15  | Deterjen       | mg/l   | 25,00          | 200             | 0,13                            | 0,13   |
| 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           | 0,03            | 1,00                            | 1,00   |
| 24  | Tembaga        | mg/l   | 0,02           | 0,02            | 0,80                            | 0,80   |
| 25  | Besi           | mg/l   | 0,08           |                 |                                 |  |
| 26  | Mangan         | mg/l   |                |                 |                                 |  |
| 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   | 0,10           | 0,002           | 50,00                           | 9,49   |
| 31  | Sulfat         | mg/l   |                |                 |                                 |  |
| 32  | Fluorida       | mg/l   | 0,20           | 1,5             | 0,13                            | 0,13   |
| 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>  |                |        |                |                 |                                 | 9,49   |
| Rata-rata = (C <sub>i</sub> /L <sub>ij</sub> ) <sub>R</sub> |                |        |                |                 |                                 | 0,686  |
| <b>Nilai Plj</b>  |                |        |                |                 |                                 | : 6,73   |
| <b>Status Mutu Air</b>                                      |                |        |                |                 |                                 | : <b>Cemar Sedang</b>                              |