

LAMPIRAN



Lampiran 1

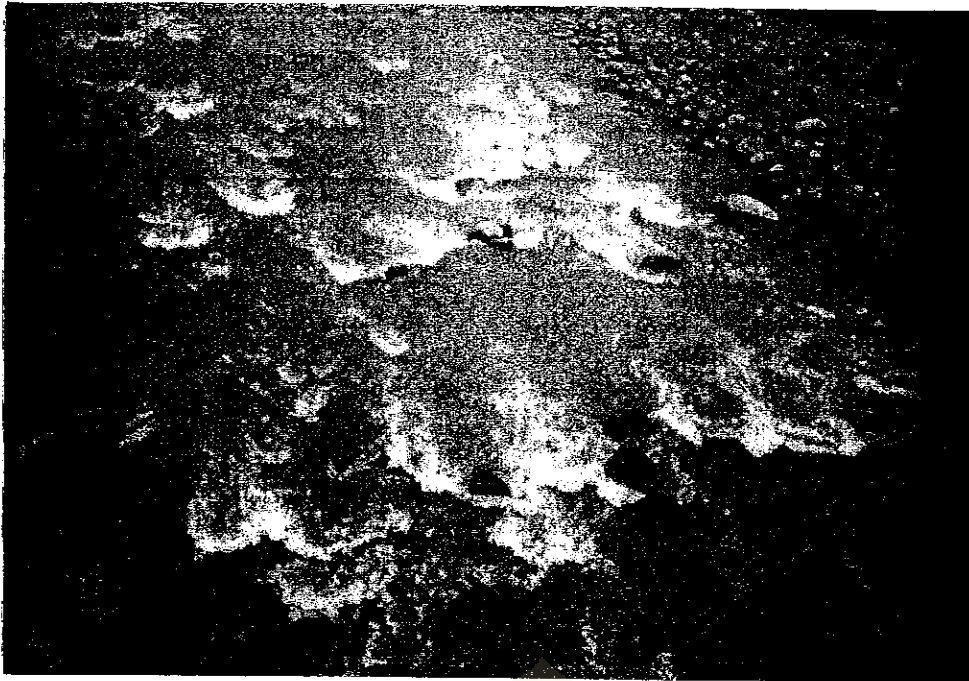
Tabel 6. Hasil Pengamatan Fisik-Kimia di Sungai Gung-Tegal

| Parameter | Oktober 1998 | | | | | Maret 1999 | | | | |
|-------------------------------------|--------------|--------|--------|--------|-------|------------|-------|-------|-------|-------|
| | I | II | III | IV | V | I | II | III | IV | V |
| Faktor Fisik | | | | | | | | | | |
| 1. Derajat Keasaman | 8,66 | 8,32 | 8,14 | 7,95 | 7,5 | 8,74 | 8,42 | 8,26 | 7,32 | 7,05 |
| 2. Temperatur (°C) | 25 | 27 | 28,5 | 31 | 33 | 25 | 27 | 28 | 30 | 32 |
| 3. DO | 6,5 | 4,8 | 3,6 | 2,5 | 1,4 | 6,3 | 5,8 | 4,4 | 3,5 | 1,8 |
| 4. Kecepatan arus (m/det) | 6,5 | 6 | 3,5 | 1,5 | 1 | 7 | 6,5 | 3,5 | 2 | 1 |
| 5. Salinitas (‰) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6. Kedalaman sungai (m) | 0,5 | 0,65 | 0,7 | 0,7 | 0,7 | 0,75 | 0,8 | 0,85 | 0,9 | 0,8 |
| 7. Kejernihan (m) | 0,5 | 0,45 | 0,2 | 0,15 | 0,15 | 0,4 | 0,3 | 0,25 | 0,12 | 0,1 |
| Faktor Kimia Perairan (mg/L) | | | | | | | | | | |
| 1. Zat terlarut (TSS) | 38 | 36 | 40 | 24 | 68 | 234 | 20 | 620 | 776 | 260 |
| 2. Zat tersuspensi (TDS) | 290 | 274 | 276 | 490 | 292 | 202 | 150 | 158 | 170 | 282 |
| 3. SiO ₂ | 2,833 | 2,714 | 2,773 | 3,078 | 2,702 | 4,06 | 5,12 | 7,24 | 6,95 | 3,78 |
| 4. Cu | ttd | 0,0005 | 0,0008 | ttd | ttd | 0,003 | 0,002 | 0,002 | 0,001 | 0,003 |
| Faktor Kimia Sedimen (mg/Kg) | | | | | | | | | | |
| 1. SiO ₂ | 44,01 | 43,28 | 33,03 | 38,39 | 35,58 | 72,6 | 75,6 | 75,55 | 81,45 | 73,68 |
| 2. Cu | 14,46 | 14,17 | 17,15 | 179,21 | 39,06 | 0,02 | 0,025 | 0,022 | 0,036 | 0,118 |

Keterangan : ttd = tidak terdeteksi



Lampiran 2



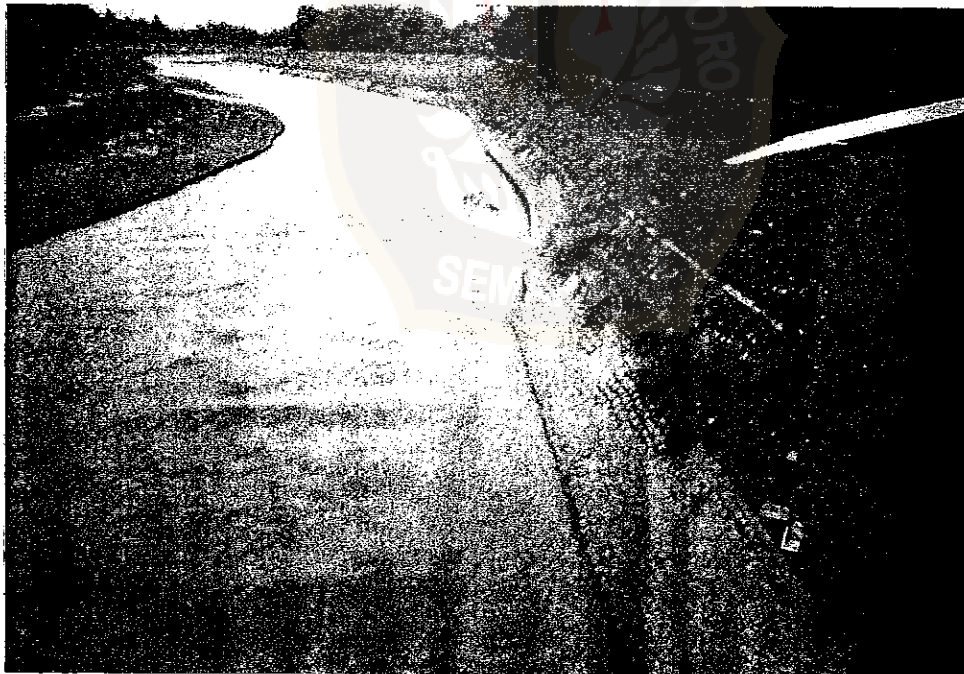
Gambar 1. Stasiun I di Desa Tuwel, Kecamatan Bumijaya, Kabupaten Tegal.



Gambar 2. Stasiun II di Desa Lebaksiu Lor, Kecamatan Lebaksiu, Kabupaten Tegal.



Gambar 3. Stasiun III di Desa Kagok, Kecamatan Pangkah, Kabupaten Tegal.



Gambar 4. Stasiun IV di Kelurahan Panggung, Kotamadya Tegal.



Gambar 5. Stasiun V di Kelurahan Tegal Timur, Kotamadya Tegal.



Lampiran 3

| NO | NAMA INDIVIDU | STASIUN I | | STASIUN II | | STASIUN III | | STASIUN IV | | STASIUN V | |
|--------------|---|-----------|--------|------------|--------|-------------|--------|------------|--------|-----------|--------|
| | | Ni 1.1 | Ni 1.2 | Ni 2.1 | Ni 2.2 | Ni 3.1 | Ni 3.2 | Ni 4.1 | Ni 4.2 | Ni 5.1 | Ni 5.2 |
| A. CENTRALES | | | | | | | | | | | |
| 1 | <i>Cyclotella meneghiniana</i> Kutz | 388 | 0 | 197 | 38 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | <i>Cyclotella stelligera</i> Cleve & Grun | 388 | 313 | 141 | 100 | 73 | 31 | 0 | 0 | 0 | 0 |
| 3 | <i>Melosira distans</i> (Ehr) Kutz | 0 | 0 | 0 | 0 | 0 | 0 | 387 | 63 | 0 | 0 |
| 4 | <i>Melosira granulata</i> (Ehr) Ralfs | 0 | 0 | 0 | 63 | 56 | 63 | 0 | 0 | 0 | 0 |
| 5 | <i>Melosira varians</i> Ag | 56 | 125 | 63 | 50 | 0 | 75 | 0 | 175 | 0 | 0 |
| 6 | <i>Thalassiosira weissflogii</i> Grunow | 563 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B. PENNALES | | | | | | | | | | | |
| 1 | <i>Achnanthydium coarctata</i> | 0 | 0 | 219 | 63 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | <i>Achnanthydium delicatula</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 422 | 80 |
| 3 | <i>Achnanthydium saxonica</i> Krasske | 456 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | <i>Achnanthydium oblongella</i> Ostrup | 281 | 55 | 109 | 75 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | <i>Achnanthydium minutissima</i> Kutz | 781 | 742 | 53 | 325 | 52 | 156 | 0 | 0 | 227 | 268 |
| 6 | <i>Acanthese exigua</i> Grun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 | 80 |
| 7 | <i>Amphora ovalis</i> Kutz | 231 | 63 | 141 | 50 | 344 | 47 | 117 | 75 | 117 | 80 |
| 8 | <i>Amphora fontinalis</i> Hust | 313 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | <i>Amphora pediculus</i> Kutz | 0 | 0 | 219 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | <i>Brachysira exilis</i> (Kutz) | 0 | 0 | 125 | 113 | 0 | 0 | 0 | 0 | 55 | 80 |
| 11 | <i>Bacillaria paradoxa</i> Gmelin | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 63 | 188 | 188 |
| 12 | <i>Caloneis bacillum</i> (Grun) | 0 | 0 | 116 | 75 | 0 | 0 | 0 | 0 | 211 | 80 |
| 13 | <i>Caloneis hyalina</i> Hust | 469 | 430 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | <i>Cymatopleura solea</i> (Breb) | 0 | 0 | 141 | 88 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | <i>Cymbella aspera</i> (Ehr) | 0 | 0 | 38 | 63 | 0 | 0 | 0 | 0 | 172 | 27 |
| 16 | <i>Cymbella ventricosa</i> Kutz | 0 | 0 | 109 | 75 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | <i>Diploneis ovalis</i> (Hilse) | 219 | 195 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | <i>Diploneis smithii</i> (Breb) | 544 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | <i>Epithemia zebra</i> (Ehr) | 0 | 0 | 0 | 0 | 40 | 94 | 0 | 0 | 0 | 0 |
| 20 | <i>Epithemia intermedia</i> Fricke | 231 | 78 | 0 | 0 | 0 | 0 | 105 | 125 | 0 | 0 |
| 21 | <i>Eunotia serpentina</i> Ehr | 0 | 0 | 0 | 0 | 35 | 63 | 0 | 0 | 0 | 0 |
| 22 | <i>Eunotia diodon</i> Ehr | 0 | 0 | 0 | 0 | 46 | 100 | 0 | 0 | 0 | 0 |
| 23 | <i>Eunotia arcus</i> Ehr | 94 | 195 | 0 | 0 | 0 | 0 | 47 | 63 | 0 | 0 |
| 24 | <i>Eunotia pectinalis</i> | 0 | 0 | 56 | 175 | 0 | 0 | 0 | 0 | 188 | 54 |
| 25 | <i>Eunotia</i> sp | 238 | 117 | 38 | 0 | 33 | 0 | 82 | 0 | 0 | 0 |
| 26 | <i>Fragilaria</i> sp | 419 | 195 | 19 | 0 | 33 | 0 | 0 | 0 | 0 | 0 |
| 27 | <i>Fragilaria capucina</i> Desmaz | 0 | 188 | 0 | 0 | 56 | 0 | 0 | 0 | 0 | 0 |
| 28 | <i>Fragilaria vaucheriae</i> (Kutz) | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 305 | 80 |
| 29 | <i>Frustulia vulgaris</i> | 375 | 39 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | <i>Gomphonema gracile</i> Ehr | 0 | 0 | 0 | 0 | 188 | 0 | 152 | 0 | 242 | 0 |
| 31 | <i>Gomphonema parvulum</i> (Kutz) | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 263 | 0 | 0 |
| 32 | <i>Gomphonema angustatum</i> (Kutz) | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 33 | <i>Gyrosigma</i> sp | 0 | 0 | 113 | 63 | 29 | 69 | 70 | 38 | 352 | 80 |
| 34 | <i>Hantzschia amphioxys</i> | 0 | 141 | 0 | 63 | 0 | 97 | 0 | 0 | 0 | 0 |
| 35 | <i>Mastogloia elliptica</i> | 338 | 63 | 456 | 38 | 46 | 0 | 35 | 0 | 0 | 0 |
| 36 | <i>Navicula dissipata</i> Hust | 0 | 0 | 334 | 0 | 50 | 0 | 82 | 0 | 180 | 0 |
| 37 | <i>Navicula mutica</i> Kutz | 313 | 0 | 0 | 0 | 33 | 0 | 70 | 94 | 242 | 107 |
| 38 | <i>Navicula bicephala</i> Hust | 594 | 78 | 225 | 75 | 273 | 31 | 352 | 63 | 547 | 27 |
| 39 | <i>Navicula contenta</i> Grun | 0 | 70 | 0 | 113 | 0 | 16 | 0 | 0 | 0 | 0 |
| 40 | <i>Navicula pupula</i> Kutz | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | <i>Navicula hustedtii</i> Krasske | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 80 |
| 42 | <i>Nitzschia frustulum</i> (Kutz) Grun | 1188 | 0 | 422 | 175 | 117 | 0 | 199 | 0 | 0 | 0 |
| 43 | <i>Nitzschia lorenziana</i> Grun | 0 | 391 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 44 | <i>Nitzschia lintermedia</i> Hantzsch | 481 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | <i>Nitzschia dissipata</i> (Kutz) | 0 | 0 | 0 | 0 | 0 | 0 | 316 | 0 | 0 | 0 |
| 46 | <i>Nitzschia recta</i> Hantzsch | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 0 | 0 | 0 |
| 47 | <i>Nitzschia linearis</i> W. Smith | 0 | 703 | 0 | 0 | 0 | 106 | 152 | 563 | 0 | 0 |
| 48 | <i>Nitzschia palea</i> (Kutz) | 1563 | 781 | 641 | 438 | 440 | 334 | 926 | 625 | 1672 | 938 |
| 49 | <i>Nitzschia aff. flexa</i> Schumann | 0 | 313 | 0 | 0 | 0 | 0 | 0 | 438 | 0 | 0 |
| 50 | <i>Pinnularia viridis</i> (Nitzsch) Ehr | 281 | 344 | 169 | 125 | 81 | 63 | 94 | 106 | 578 | 107 |
| 51 | <i>Pinnularia</i> sp | 688 | 78 | 156 | 113 | 117 | 94 | 82 | 113 | 258 | 188 |
| 52 | <i>Pleurosigma elongatum</i> W. Smith | 106 | 258 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | <i>Rhoicosphemia curvata</i> (Kutz) | 0 | 78 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | <i>Stauroneis</i> sp | 188 | 63 | 31 | 50 | 23 | 63 | 223 | 269 | 0 | 0 |
| 55 | <i>Surirella</i> sp | 188 | 78 | 156 | 83 | 67 | 75 | 195 | 188 | 336 | 134 |
| 56 | <i>Synedra ulna</i> (Nitzsch) Ehr | 500 | 352 | 203 | 208 | 188 | 188 | 391 | 469 | 820 | 804 |
| | Total | 12.469 | 6.852 | 4938 | 3354 | 2419 | 1997 | 4149 | 3788 | 7360 | 3482 |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|
| y1 N | 4.09 | 3.69 | 3.38 | 3.58 | 3.83 | 3.84 | 3.53 | 3.30 | 3.57 | 3.54 | y1 H' | 0.50 | 0.49 | 0.44 | 0.42 | 0.42 | 0.49 | 0.51 | 0.46 | 0.40 | 0.37 | |
| x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 | x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 | |
| x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 | x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 | |
| x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 | x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 | |
| x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 | x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 | |
| x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 | x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 | |
| x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 | x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 | |
| x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 | x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 | |
| x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | 1.87 | x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.88 | 1.91 | 1.87 |
| x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 | x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 | |
| 1 | 0.538 | 4.677 | 0.21 | -2.04 | -0.13 | -0.95 | -3.16 | -14.3 | -38.6 | 71.71 | 2 | 0.043 | 0.371 | 0.01 | -0.25 | -0.02 | 0.10 | -0.34 | 0.8 | -1.4 | 1.82 | |
| r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | |
| y1 <i>A.aphalis</i> | 0.30 | 0.45 | 1.15 | 0.45 | 0.28 | -0.04 | 0.17 | 0.37 | 0.30 | 0.34 | y1 <i>A.aphalis</i> | 0.70 | 0.66 | 1.05 | 0.93 | 0.87 | 0.06 | 0.35 | 0.19 | 0.22 | -0.11 | |
| x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 | x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 | |
| x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 | x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 | |
| x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 | x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 | |
| x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 | x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 | |
| x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 | x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 | |
| x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 | x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 | |
| x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 | x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 | |
| x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | 1.87 | x8 SiO ₂ sd. | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.88 | 1.91 | 1.87 |
| x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 | x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 | |
| 3 | -1.02 | -11.9 | -0.40 | 2.69 | -0.02 | -1.07 | 6.90 | 7.4 | 39.8 | -52.7 | 4 | 0.24 | -0.4 | 0.11 | -1.27 | -0.07 | -0.19 | 1.15 | -0.6 | 2.3 | 0.9 | |
| r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| | 0.85 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | | 1.45 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | |

| | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| y1 <i>S. ulna</i> | 0.30 | 0.53 | 0.35 | 0.90 | 0.70 | 0.57 | 0.50 | 0.45 | 0.49 | y1 <i>Surtirella</i> | 0.30 | 0.50 | 0.44 | 0.67 | 0.66 | 0.10 | 0.39 | 0.58 | 0.70 | 0.60 |
| x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 |
| x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 |
| x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 |
| x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 |
| x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 |
| x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 |
| x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 |
| x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.91 | 1.87 | x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | 1.87 |
| x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 |
| | | IV | | | | III | II | I | | | III | | | | IV | II | I | | | |
| 5 | 0.262 | 3.394 | 0.23 | -1.03 | 0.11 | 2.06 | -4.47 | -6.1 | -13.9 | 6 | 0.206 | 0.995 | -0.05 | -0.57 | 0.11 | 0.23 | 0.83 | 4.0 | 12.8 | -22.9 |
| r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| | 0.26 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | | 0.33 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| y1 <i>P. viridis</i> | 0.60 | 0.61 | 0.89 | 0.97 | 1.05 | 0.71 | 0.79 | 0.97 | 1.09 | y1 <i>N. palea</i> | 1.11 | 1.12 | 1.26 | 1.34 | 1.36 | 1.10 | 1.11 | 1.22 | 1.22 | 1.43 |
| x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 |
| x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 |
| x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 |
| x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 |
| x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 |
| x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 |
| x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 |
| x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | 1.87 |
| x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 |
| | | II | | | | IV | III | I | | | III | | | | IV | II | I | | | |
| 7 | -0.36 | -2.94 | -0.12 | 0.80 | -0.08 | -1.27 | 1.67 | 2.5 | 8.2 | 8 | -0.17 | -1.64 | -0.07 | 0.52 | -0.03 | -0.58 | 0.55 | 2.9 | 4.2 | -5.78 |
| r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| | 0.50 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | | 0.13 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

| | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| y1 Pinnulan | 0.78 | 0.50 | 0.68 | 0.30 | 0.54 | 0.10 | 0.50 | 0.67 | 0.47 | 0.73 |
| x1 Temp | 1.40 | 1.43 | 1.46 | 1.49 | 1.52 | 1.40 | 1.43 | 1.45 | 1.48 | 1.51 |
| x2 pH | 0.94 | 0.92 | 0.91 | 0.90 | 0.86 | 0.94 | 0.93 | 0.92 | 0.87 | 0.85 |
| x3 DO | 0.81 | 0.68 | 0.56 | 0.40 | 0.15 | 0.80 | 0.76 | 0.64 | 0.54 | 0.26 |
| x4 Arus | 0.81 | 0.78 | 0.54 | 0.18 | 0.00 | 0.85 | 0.81 | 0.54 | 0.30 | 0.00 |
| x5 TSS | 1.56 | 1.56 | 1.60 | 1.38 | 1.83 | 2.37 | 1.30 | 2.79 | 2.89 | 2.42 |
| x6 TDS | 2.46 | 2.44 | 2.44 | 2.69 | 2.47 | 2.30 | 2.18 | 2.20 | 2.23 | 2.45 |
| x7 SiO ₂ a | 0.45 | 0.43 | 3.44 | 3.49 | 3.43 | 0.61 | 0.71 | 0.86 | 0.84 | 0.58 |
| x8 SiO ₂ sd | 1.64 | 1.64 | 1.52 | 1.58 | 1.55 | 1.86 | 1.88 | 1.88 | 1.91 | 1.87 |
| x9 Cu sed. | 1.16 | 1.15 | 1.23 | 2.25 | 1.59 | -1.70 | -1.60 | -1.66 | -1.44 | -0.93 |
| | | | | | | | iv | ii | i | |
| 9 | -0.73 | -10.5 | -0.59 | -0.61 | -0.34 | -4.33 | 5.07 | 15.2 | 16.9 | -17.3 |
| r ² | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| F stat | 1.000 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| | 0.00 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| | 0.39 | 0.00 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Lampiran 4. Hasil Analisis Regresi Linear Ganda antara Struktur Komunitas Diatom Epipelik dengan Faktor Fisik-Kimia Perairan dan Sedimen