

## **ABSTRAK**

### **PROFIL KUALITAS AIR PADA SAAT PERIODE LA NINA MODERAT DI PERAIRAN SEKITAR TAMBAK UDANG KECAMATAN RAWAJITU, TULANG BAWANG, LAMPUNG**

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Fenomena anomali cuaca diduga memiliki pengaruh terhadap keberlangsungan budi daya udang. Periode anomali cuaca yang terjadi di Indonesia salah satunya yaitu La Nina. Tujuan dari penelitian ini adalah mengkaji kualitas air perairan di sekitar tambak udang Kecamatan Rawajitu, Tulang Bawang selama periode La Nina moderat. Penelitian dilaksanakan pada bulan Februari – Mei 2022 bertempat di perairan sekitar tambak udang, Kecamatan Rawajitu, Tulang Bawang. Pengambilan sampel dilakukan di 4 stasiun di perairan sekitar tambak udang dengan 3 kali pengulangan. Hasil penelitian yang didapat menunjukkan perbandingan nilai total bakteri umum dan *Vibrio* cukup tinggi. Kelimpahan plankton dan indeks kesaragaman plankton tinggi, indeks keanekaragaman plankton sedang dan indeks dominansi plankton rendah. Kualitas air seperti pH, DO, salinitas, dan nitrit berada pada ambang optimal. Nilai suhu, alkalinitas, amonia, nitrat, dan fosfat menunjukkan berada pada nilai yang tidak optimal. Secara keseluruhan selama penelitian berlangsung ada beberapa parameter kualitas air yang menunjukkan kondisi tidak sesuai dengan nilai yang optimum seperti nilai total bakteri umum dan *Vibrio*, suhu, alkalinitas, amonia, nitrat, dan fosfat.

**Kata kunci:** *Vibrio*, La Nina, kualitas air, Rawajitu, tambak

## **ABSTRACT**

### **THE WATER QUALITY PROFILE DURING THE MODERATE LA NINA PERIOD IN THE WATERS AROUND THE SHRIMP POND AT RAWAJITU DISTRICT, TULANG BAWANG, LAMPUNG**

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Anomalous weather phenomena are suspected to have an influence on the sustainability of shrimp farming. One of the weather anomalies in Indonesia is La Nina. The purpose of this study was to assess the water quality of the waters around the shrimp ponds of Rawajitu District, Tulang Bawang during the moderate La Nina period. The study was carried out in February – May 2022 in the waters around the shrimp pond, Rawajitu District, Tulang Bawang. Sampling was carried out at 4 stations in the waters around the shrimp farm with 3 repetitions. The results obtained showed a comparison of the total value of common bacteria and *Vibrio* was quite high. Abundance of plankton and high plankton uniformity index, moderate plankton diversity index and low plankton dominance index. Water quality such as pH, DO, salinity, and nitrite were at optimal thresholds. The temperature, alkalinity, ammonia, nitrate, and phosphate values showed to be at non-optimal values. Overall during the study there were several parameters of water quality that showed the condition was not in accordance with the optimum value such as the total value of common bacteria and *Vibrio*, temperature, alkalinity, ammonia, nitrate, and phosphate.

**Keywords:** *Vibrio*, La Nina, water quality, Rawajitu, shrimp pond