

AZIZ PRINGGO DWI PAMBUDI. NIM. 21.03.4.1.1.00020. Hubungan Tingkat Pencemaran Amonia dan Total Padatan Terlarut (TSS) Limbah Budidaya Udang *Vanname* Di Muara Sungai Ungapan Kecamatan Bagil Kabupaten Pasuruan.

ABSTRAK

Muara Sungai Ungapan merupakan kawasan perairan yang berfungsi sebagai titik temu antara air sungai dan laut serta menjadi lokasi pembuangan limbah dari aktivitas budidaya dan domestik masyarakat sekitar. Penelitian ini bertujuan untuk menganalisis kualitas air dengan pendekatan parameter fisika dan kimia yaitu suhu, pH, salinitas, amonia, dan *Total Suspended Solid* (TSS), serta menentukan status mutu air berdasarkan metode Indeks Pencemaran (IP). Hasil penelitian menunjukkan nilai indeks pencemaran dengan pendekatan parameter kualitas air pH, Suhu, Salinitas, Amonia dan Total Padatan Terlarut mendapatkan nilai lebih dari satu dan kurang dari lima yang dikategorikan tercemar ringan karena ada beberapa kualitas air yang tidak sesuai dengan baku mutu yang sudah ditetapkan. Kesimpulan dari penelitian ini adalah bahwa Muara sungai Ungapan ini tercemar ringan yang di analisis menggunakan indeks pencemaran dengan pendekatan parameter kualitas air seperti Amonia, (TSS), pH, Suhu dan Salinitas dan thubungan yang tidak kuat parameter Amonia dan (TSS).

Kata Kunci: Amonia, Total Padatan Terlarut, Limbah, Budidaya Udang *Vanname*, Muara Sungai

AZIZ PRINGGO DWI PAMBUDI. NIM. 21.03.4.1.1.00020. The Relationship Between Ammonia Pollution Levels and Total Suspended Solids (TSS) of Vannamei Shrimp Cultivation Waste in the Ungapan River Estuary, Bagil District, Pasuruan Regency. Supervisor **DR. Maulinna Kusumo Wardhani, S. Kel., M. Si**

ABSTRACT

The Ungapan River estuary is a water area that serves as the meeting point between river and seawater, and serves as a disposal site for agricultural and household waste from the surrounding community. This study aims to analyze water quality using physical and chemical parameters, including temperature, pH, salinity, ammonia, and total suspended solids (TSS), and to determine water quality status using the Pollution Index (PI) method. The results of the study showed that the pollution index value using the water quality parameter approach of pH, Temperature, Salinity, Ammonia and Total Dissolved Solids obtained a value of more than one and less than five which was categorized as lightly polluted because there were several water qualities that did not comply with the established quality standards. The conclusion of this study is that the Ungapan River Estuary is lightly polluted, which is analyzed using a pollution index with a water quality parameter approach such as Ammonia (TSS), pH, Temperature and Salinity and there is no strong relationship between the Ammonia parameters and (TSS).

Keywords: Ammonia, Total Suspended Solids, Waste, Vannamei Shrimp Cultivation, River Estuary