

## ABSTRAK

Kawasan Wisata Mandeh terletak di Kecamatan Koto XI Tarusan yang berbatasan langsung dengan Kota Padang. Kecamatan Koto XI Tarusan memiliki beberapa pulau kecil yang dapat dijadikan objek wisata bahari seperti *surfing*, *snorkling*, dan *diving* karena memiliki potensi sumberdaya ekosistem pesisir khususnya terumbu karang. Tujuan dari penelitian ini adalah untuk mengetahui kualitas air dan kondisi tutupan terumbu karang di Pulau Pagang Kawasan Mandeh, Kabupaten Pesisir Selatan. Metode yang digunakan dalam penelitian ini adalah deskriptif yaitu penjelasan secara sistematis, faktual dan akurat yang didapatkan di lapangan, pengambilan data menggunakan UPT (*Underwater Photograph Transect*). Hasil penelitian menunjukkan pengukuran kualitas air Pulau Pagang seperti suhu, pH, kecerahan dan salinitas sangat mendukung pertumbuhan karang. Rata-rata persen tutupan terumbu karang di Pulau Pagang sebesar 3,40% (Buruk), stasiun I 4,13% (buruk), stasiun II 6,20% (buruk), stasiun III 1,20% (buruk), stasiun IV 2,07% (buruk) dan karang yang mendominasi adalah *Coral Massive*

**Kata Kunci** : Pulau Pagang, Underwater Photograph Transect (UPT), persen tutupan, kondisi perairan

## ABSTRAC

*The Mandeh Tourism Area is located in Koto XI Tarusan District which is directly adjacent to the City of Padang. Koto XI Tarusan District has several small islands that can be used as marine tourism objects such as surfing, snorkeling, and diving because they have the potential for coastal ecosystem resources, especially coral reefs. The purpose of this study was to determine the quality of water and the condition of coral reef cover in Pagang Island, Mandeh Region, Pesisir Selatan Regency. The method used in this research is descriptive, namely systematic, factual and accurate explanation obtained in the field, data collection using UPT (Underwater Photograph Transect). The results showed that measurements of Pagang Island water quality such as temperature, pH, brightness and salinity strongly support coral growth. The average percent of coral reef cover in Pulau Pagang is 3.40% (poor), station I is 4.13% (bad), station II is 6.20% (bad), station III is 1.20% (poor), station IV 2.07% (poor) and the dominant coral is Coral Massive*

**Keyword** : Pagang Island, Underwater Photograph Transect (UPT), percentage of cover, water conditions