

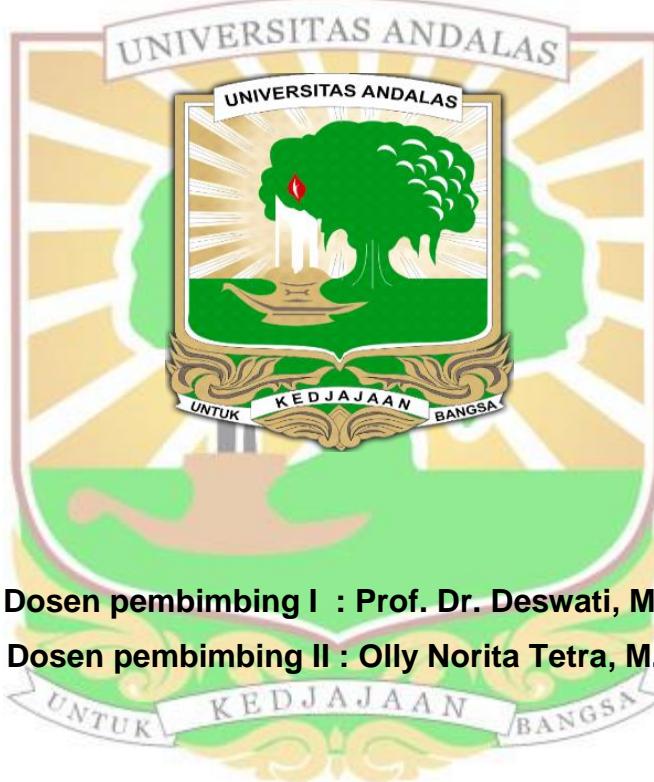
**ANALISIS KELIMPAHAN MIKROPLASTIK PADA SEDIMENT
DI PANTAI MUARO LASAK PADANG**

SKRIPSI SARJANA KIMIA

Oleh :

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ABSTRACT

ANALYSIS OF MICROPLASTIC ABUNDANCE ON SEDIMENTS IN MUARO LASAK PADANG BEACH

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Microplastics are plastic particles that have a diameter of less than 5 mm. Microplastics usually come from plastic waste, plastic waste is found on the shores of Muaro Lasak Beach which causes the entire coastal ecosystem to be disturbed. This study aims to determine the characteristics of microplastics in sediments at Muaro Lasak Padang Beach which were carried out with three sampling points representing Muaro Lasak Padang Beach. Microplastic analysis carried out was the shape, color, and type of polymer in the sediment sample. The results showed that most of the sediment samples contained microplastics with the types of fiber, film, and fragments. At the third point found the value of microplastic, where at point I found 18250 particles/kg dry sediment, at point II found 12350 particles/kg dry sediment while at point III found 9150 particles/kg dry sediment. Based on the results of FTIR characterization, Polyethylene (PE), Polypropylene (PP) and Polyamide (PA) were found in the microplastic samples. The factors that affect the microplastic content in coastal areas are the activities of the community around the coastal area and the activity of the tides of sea water.

Keywords : Microplastic, Sediment, Fragment, Fiber, Film, FTIR