

**O 35. BASICLY STATISTICAL ANALYSIS AND SUSCEPTIBILITY PROPERTIES OF
HEAVY METAL POLLUTION IN SURFACE SEAWATER**

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ABSTRACT: Since approximately 3/4 of the world is covered with seawater, the seas are referred to as the easiest waste disposal site. Especially in the metropolitan, the wastewaters are thrown directly into the sea or drained after a certain purification process. Various chemicals in seawater affect both marine life and indirectly human life. In the bays, this situation occurs in more seriously, due to insufficient bay inner water flow and continuous the wastewater throwing by mankind. The inner bay of Izmir, which is the studied field in this study, is known as the part between Sasalı / Karşıyaka coastline and Güzelbahçe / Bayraklı. In terms of depth, the inner bay is suitable for sea transportation and is used very intensely. There is constant ferry transportation and an international port operates in this region. There are also several streams pouring into the inner bay. Therefore, the inner bay can be exposed to continuous pollution, and chemical waste pollution can be observed intensely in the inner bay. In this study, the magnetic susceptibility values and elemental analysis of the samples taken from the surface waters of the inner bay coastline were performed. In addition, various basic statistical data were examined. Although there are various heavy metal ions and transition elements, intense contamination was not observed in the inner bay waters.

Keywords: *Statistic, susceptibility, bay, pollution.*