

## SITE SELECTION ANALYSIS OF WASTE DISPOSAL SITES IN MAOMING CITY, GUANGDONG

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**Received: 16 Aug 2022**

**Accepted: 19 Aug 2022**

**Published: 23 Aug 2022**

### **ABSTRACT**

*Due to the increasing amount of domestic waste in urban and rural areas, the scientific location of waste treatment points is becoming more and more important issues when local governments plan environmental sanitation construction plans. According to the actual situation of small cities, this study uses ArcGIS software as a tool to analyze the Euclidean distance of residential areas, water systems and traffic networks in Maoming City. Meanwhile, the slope of the elevation imagery is analysis, the land use type and soil type distributions are reclassified. Then, the raster calculator is used to analyzing spatially superimpose for the factors affecting the site selection of the waste disposal point, and the spatial analysis model is established to obtain the final site selection result. The study shows that: firstly, the current situation of the Waste Disposal Sites (WDS) selection location is mainly distributed in the southwest of Maoming City. Secondly, the existing waste disposal points in the city are in a relatively reasonable condition. Third, according to the analysis of spatial distribution, more consideration can be given to the location in Huazhou City in the future. In conclusion, the method of this study can be used for referencing similar to small cities in China.*

**KEYWORDS:** *Waste Disposal Sites (WDS); Site Selection Analysis; Geographic Information System (GIS); Spatial Analysis; Maoming City*