Contaminated Sites Prioritization Process Promoting and Redevelopment Planning

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Abstract : With the number and area of contaminated sites continued to increase in Taiwan, the Government have to make a priority list of screening contaminated sites under the limited funds and information. This study investigated the announcement of Taiwan EPA land 261 contaminated sites (except the agricultural lands), after preliminary screening 211 valid data to propose a screening system, removed contaminated sites were used to check the accuracy. This system including two dimensions which can create the sequence and use the XY axis to construct four quadrants. One dimension included environmental and social priority and the other related economic. All of the evaluated items included population density, land values, traffic hub, pollutant compound, pollutant concentrations, pollutant transport pathways, land usage sites, site areas, and water conductivity. The classification results of this screening are 1. Prioritization promoting sites (10%). 2. Environmental and social priority of the sites (17%), 3. Economic priority of the sites (30%), 4. Non-priority sites (43 %). Finally, this study used three of the removed contaminated sites to check screening system verification. As the surmise each of them are in line with the priority site and Economic priority of the site.

Keywords : contaminated sites, redevelopment, environmental, economics

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