



Inundation Potential Analysis on Xiayun Creek

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There are many camping and recreation area located along two sides of Xiayun creek, Fuxing District of Taoyuan City, Taiwan. Recently, extremely rainfall events frequently occur in Northern Taiwan, local government increasingly cares about people's safety in recreation area during typhoon season.

After collecting the information of topographic map, grain size distribution, scale and location of structures of check dam and grounsill. To evaluate the disaster risk, this study uses RiverFlow2D to simulate the rainstorm pattern of different reoccurrence frequency years of the Xiayun-creek watershed.

By simulate the situation of the water level rises, to analyze the different river width whether it can affect the camping and recreation area, we can explore the dangerous location and associated precaution works.