

A STUDY ON EVALUATING METHOD OF PAVEMENT TECHNOLOGY THAT MITIGATE ENVIRONMENT LOAD

In this study, we categorized the various pavement technologies which were developed as mitigating environment load. Those are classified into types, environmental incident and index of property of each technology. Also we calculated the amount of environmental load through the lifecycle which is about the Reclaimed Asphalt pavement that works effectively as recycling materials.

As a result, the environmental load of in-place recycling method is smaller than off-site recycling method. However, the amount of environmental load will be increased depends on the transportation distance of construction machine. In that case, it is necessary to consider selecting this method.

Keywords : Environment load, LCA, CO₂ emission, In-place recycling, Reclaimed Asphalt pavement