Rain, Rain, Go Away

Team #3

Stormwater remediation in Grand Rapids, Michigan

Problem

Christ Church in Grand Rapids, MI has received an EGLE grant to implement green infrastructure in order to reduce nonpoint source pollution on their campus. The church is located within the Plaster Creek catchment, and its stormwater runoff discharges into the Alger Creek ravine. Our project focuses on reducing the stormwater runoff from the parking lot.



Since reducing the discharge into the ravine minimizes their contribution to bank erosion, Christ Church is viewing this project as a method of living into the Biblical mandate of caring for their neighbors.

Proposal

The solution to this will involve constructing a rain garden and replacing a section of existing asphalt with permeable pavement. The combination of these two additions will capture the runoff necessary to reduce discharge to predeveloped levels; and will alleviate bank erosion and preserve the surrounding area.

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