

# **IMPROVING WATER QUALITY FROM ROGERS ROAD FAMILY AND GRADUATE HOUSING RUNOFF**

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This multi-disciplinary project focused on improving the water quality for UGA's Family and Graduate Housing located on Rogers Road, which flows unchecked into Lake Herrick. The site is among the most developed areas within the Lake Herrick watershed. This study investigated 1) conceptual stormwater control measures to treat runoff and 2) explored residents' attitudes and behaviors toward water quality. Then, findings were integrated and guided program and design development for stormwater retrofits that would slow, treat, and cool runoff. First, an inventory of existing site conditions and identification of likely constituents contributing to poor water quality shaped opportunities to improve water quality. Conceptual Stormwater Control Measures (SCMs) were sized and presented to residents to solicit input. Residents were also asked to respond to a national questionnaire about water quality attitudes and behavior.

Questionnaire results from the residents were compared to previous findings and guided design alternatives. Once a preferred alternative was chosen, then a final design was developed. It focused on improving water quality, enhancing aesthetics, and increasing ecosystem services in the hopes of improving Lake Herrick's water quality. The project is an extension of Watershed UGA program and is supported by the Office of University Architects and UGA Student Affairs.\*

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