#### Restoring one of Georgia's Natural Wonders: Water Conservation and Flow Improvements in the Skywater Springshed

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#### Background



Important site for Native Americans, who named the springs "Skywater"

Resort and casino opened in 1927, after traces of radium were found in the springs

Under private ownership, Radium Springs was a popular recreation site

In 2010, the city reopened Radium Springs as a publicly accessible greenspace

## Hydrogeologic Profile of Springs





70,000 gallons per minute (101 mgd; 151 cfs) is the highest flow ever recorded

Flows fluctuate depending on rainfall and Floridan aquifer withdrawals

## Radium Springs Springshed



170 Water level above mean sea level (ft.) 165 160 155 150 145 Nov 2020 Jan 2021 Mar 2021 May 2021 Jul 2021 Sep 2021 Nov 2021 Jan 2022 Radium Springs well Test Well 3

Radium Springs Well and Test Well 3

#### Test wells

Radium Springs Springshed



# Our Approach



- Measure spring output, monitor groundwater within the spring shed, and monthly water quality samples
- Explore source switching feasibility
- Improve agricultural irrigation water use efficiency



Improving Agricultural Water Use Efficiency







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