

Impacts of Stormwater Runoff on Trash Accumulation along the Jordan Lake Shoreline

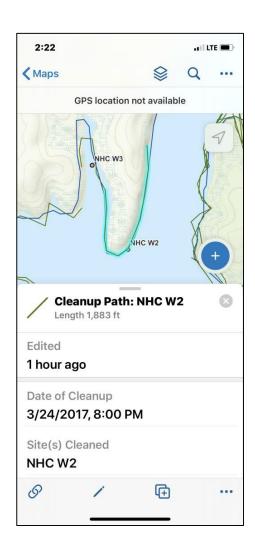
NCSU MGIST Capstone Project

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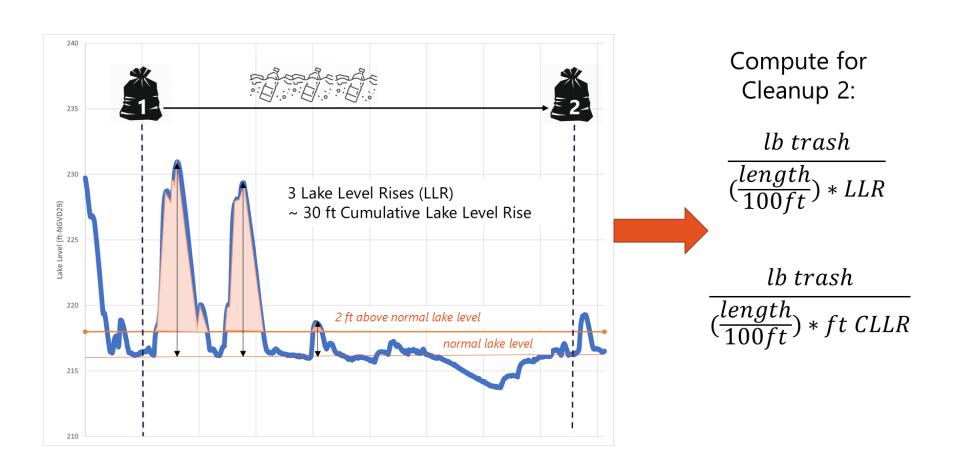
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Project Overview

- Develop GIS to store existing and future cleanup event data
- Develop tool to determine significant rainfall events and compute trash loading metrics for cleanup events at each site
- Develop GIS mapping applications:
 - data collection tool to enter new cleanups
 - public-facing web mapping application to examine cleanups and stormwater impacts

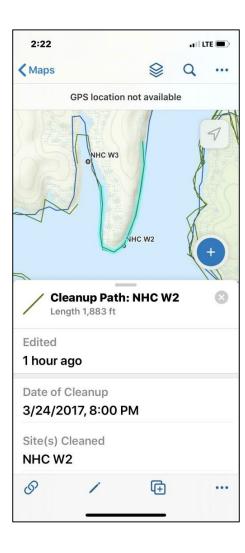


Trash Loading Metrics

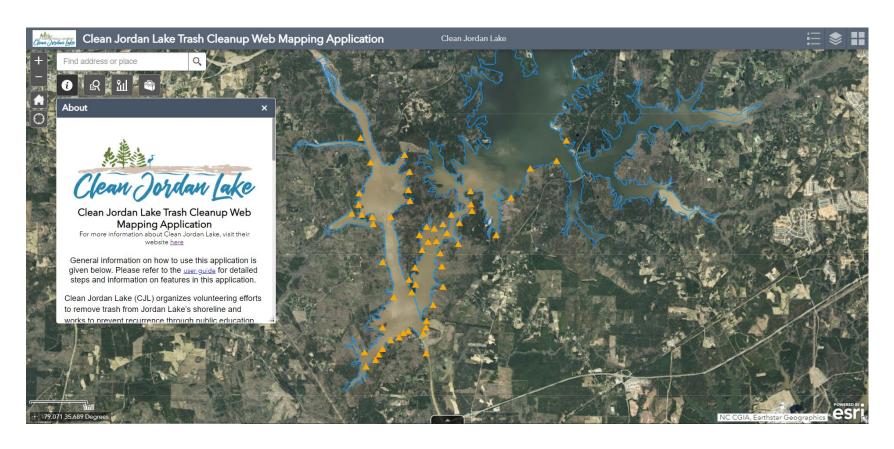


Collector Application

(click to view demo video)



Web Mapping Application (click to view site)



Impact of Work

- Expanded toolset to maintain and analyze trash cleanup data
 - improve data quality
- Many ways to analyze and visualize trash accumulation
- Trash metrics reveal stormwater impacts
 - Target future cleanups
 - Education and awareness

Thank you!

Q & A