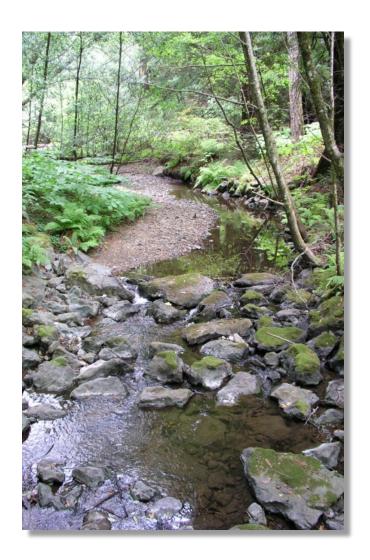
DOEE's Rapid Stream Assessment Program





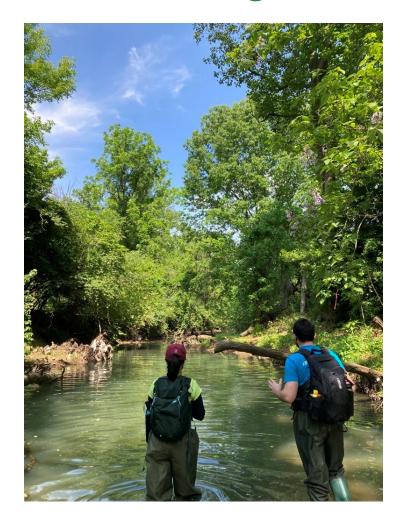
Overview

- Why we created the RSA Program
- Conducting Assessments
- Staff Training and QAQC
- Data Management Needs
- Data Products
- Program Success and What's Next



DOEE's Rapid Stream Assessment Program

- The intent is to collect information to provide a high-level overview of the entire wadeable stream network within the District. Partially driven by MS4 permit requirements.
- Help identify potential issues as well as locations that may warrant followup inspections or more in-depth evaluations.
- Target future implementation of restoration projects
- Serve as a baseline with which to compare information from these assessments in the future.

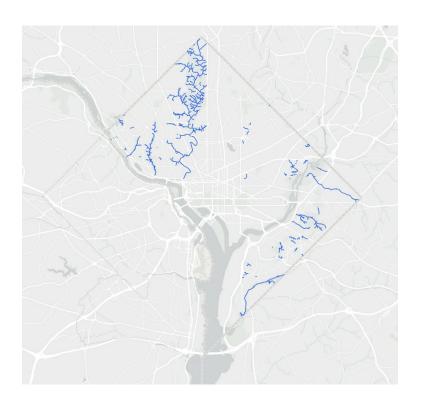


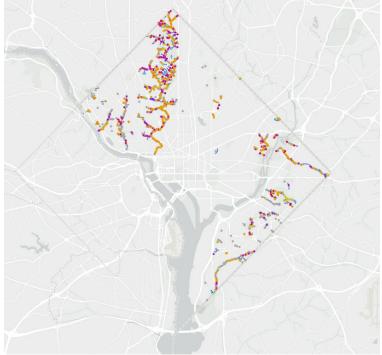


Conducting the Stream Assessments

Overview

To date we've assessed >100 miles of stream, recorded >2,400 point assessments, and taken >5,000 photographs.

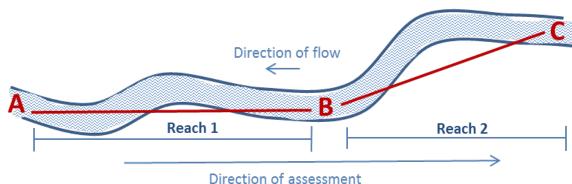




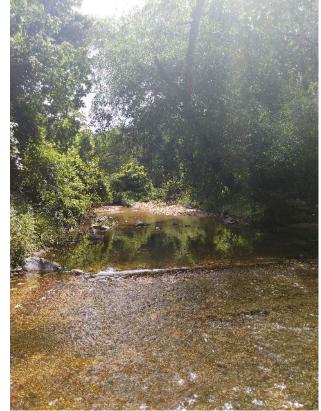


Conducting the Stream Assessments

Reaches

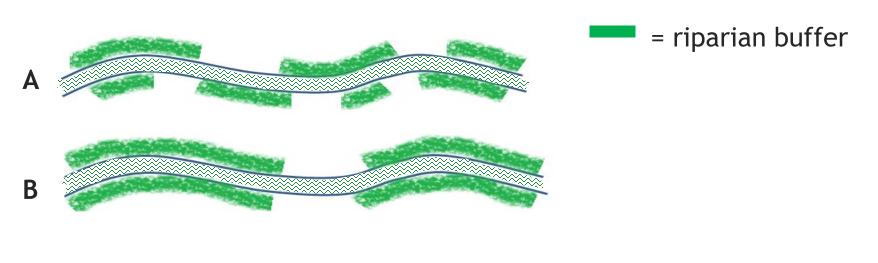


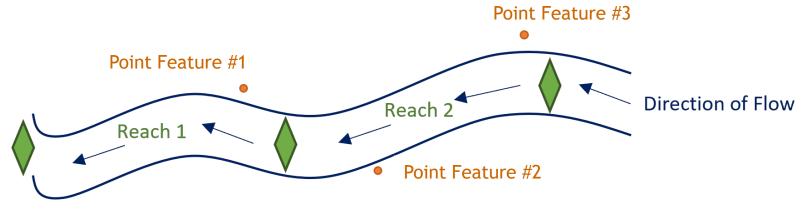




Conducting the Stream Assessments

Points







Overview

- Staff Certification
- Annual Training Activities
- Field Verification



Certification Levels

Level A certification indicates that a staff person is an expert in the RSA program.

<u>Level B</u> certification indicates that a staff person has demonstrated a working knowledge of RSA data collection but does not have significant experience conducting assessments.





Annual Training

Training Modules

Online, recorded modules

Review Session

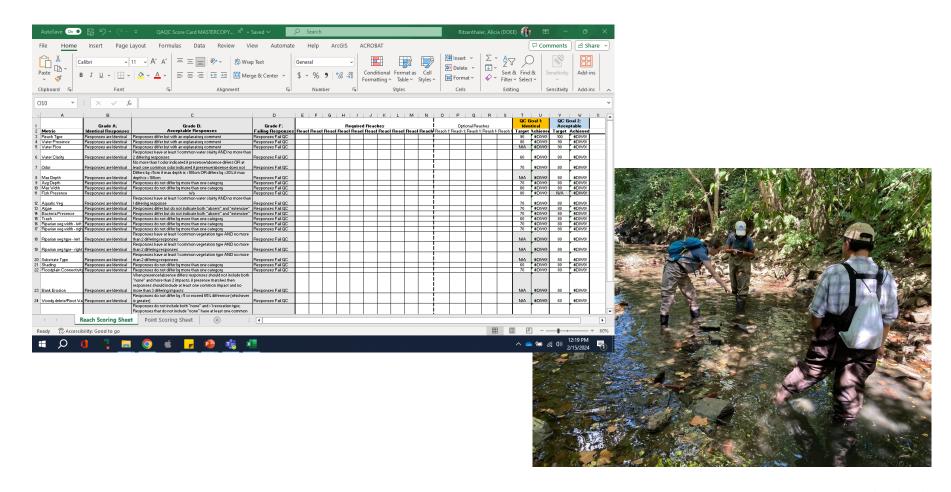
Hybrid, 'game show' style group activity

In-Person Field Day

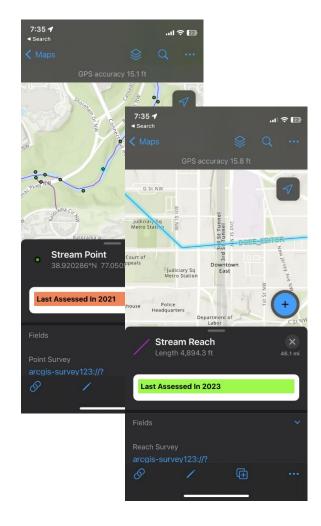
Guided, small group opportunity to practice

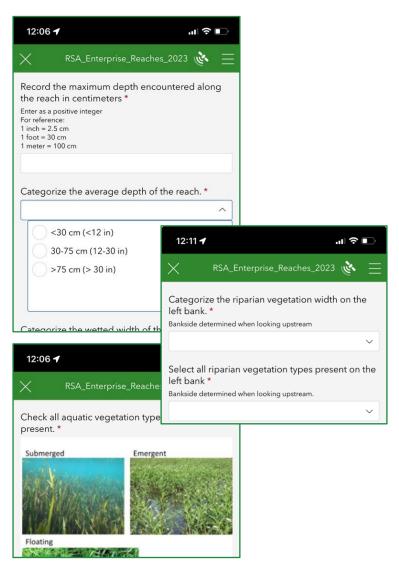


Field Verification



Reference guides



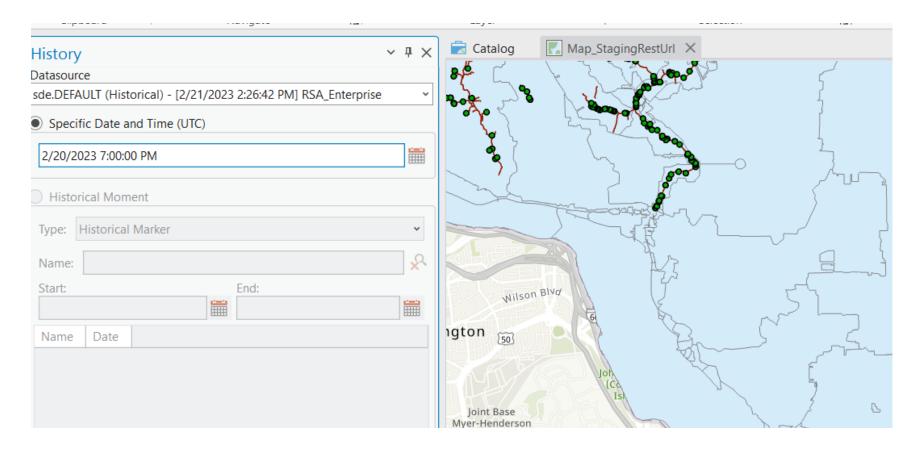






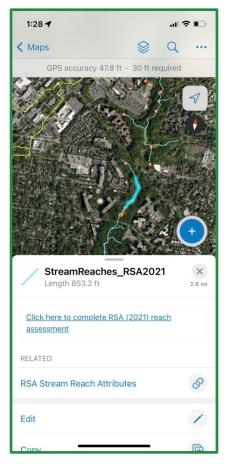
Data Management

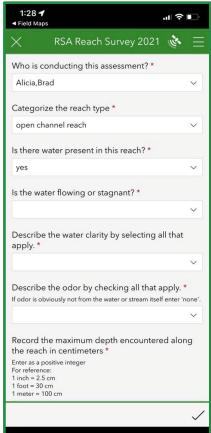
Enterprise Geodatabase



Data Management

Field Maps and Survey 123





Use of Custom URL Scheme to Link ESRI's Collector/FieldMaps and Survey 123

Pros:

- Dynamic mapping
- Robust conditional programming
- Editing safeguards
- On and offline syncing options
- No additional cost to DOEE

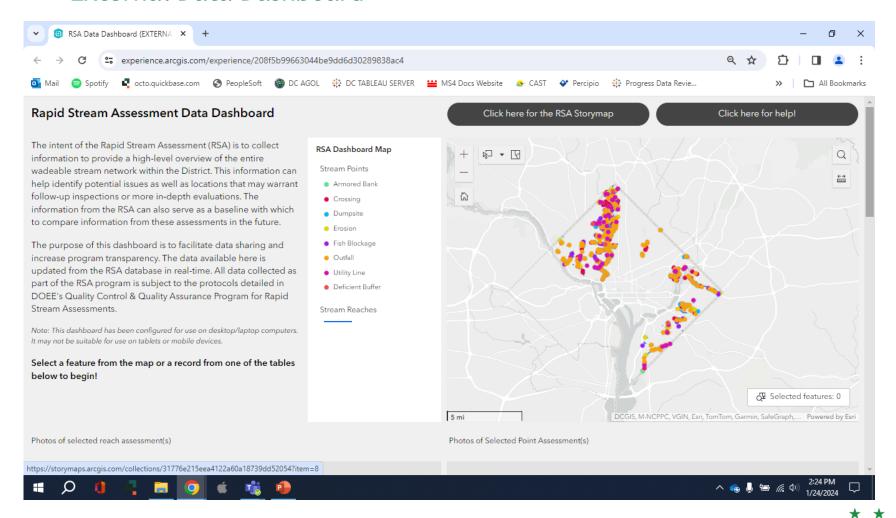
Cons:

 Limited documentation available from ESRI



Data Products

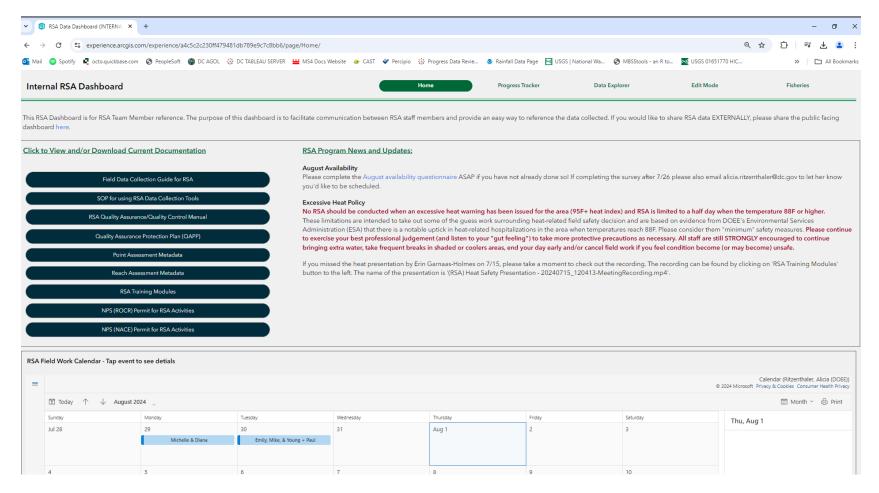
External Data Dashboard





Data Products

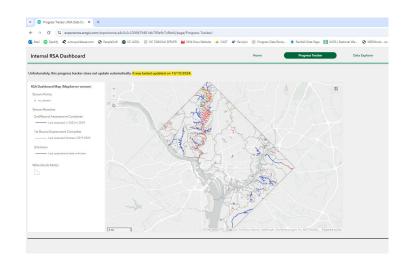
Internal Data Dashboard

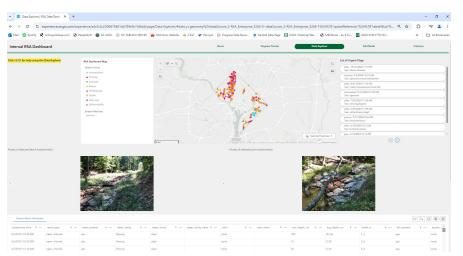


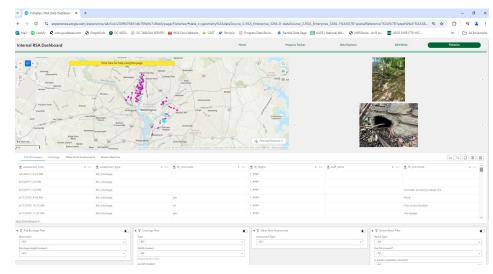


Data Products

Internal Data Dashboard









Program Success and What's Next

Round 2 RSA Assessments

- Everything assessed at least once every 5 years
 - Goal of assessing 20% of all streams each year
- Continued improvement of data dashboard and data transparency
- Potential to increase collaboration between RSA and other teams at DOEE





Thanks!

Please reach out if you have questions and/or would like to learn more!

Alicia Ritzenthaler

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The Rapid Stream Assessment Data Dashboard:

https://dcgis.maps.arcgis.com/home/item.html?id=208f5b99663044be9dd6d30289838ac4

2023 First Place BUBBA Award for Most Innovative Stormwater Permit:

https://chesapeakestormwater.net/awards/doees-rapid-stream-assessment-rsa-program/

