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# STUDENT WATERSHED MONITORING NETWORK

## FIELDSCOPE DATABASE PROGRAM

*The Student Watershed Monitoring Network (SWMN) has a new database tool to upload field monitoring data. FieldScope is a free and user-friendly tool to capture a range of data, photos and observations.*

### What is FieldScope?

Fieldscope is an on-line database program that supports citizen-science field data collection. The program was developed by BSCS in partnership with the National Geographic Society and the National Science Foundation.

The SWMN partners, Clark County Clean Water Division and the City of Vancouver Water Resources Education Center, wrote a grant to develop a SWMN specific database. The grant funds the database maintenance, training and teacher/staff support for uploading data in the 2018-2019 & 2019-2020 school years. If successful, we'll continue.

### What type of data can be uploaded to FieldScope?

All of the typical data that you collect as part of the SWMN, as well as other water quality information, such as photo-points, amphibian egg masses and evidence of wildlife. The database provides a real-world examples of how water quality professionals upload and track data.

- **Basic observation information**, including photo station
- **Atmospheric conditions** (what are the conditions at the time of collection)
- **Chemical parameters** (all of the standard tests)
- **Biological parameters** (type of wildlife evidence at the site)
- **Macroinvertebrates** (by family type)
- **Physical parameters** (including habitat, erosion and presence of pollution)

### How do I engage my students with FieldScope?

Visit the project website and create an account:

<http://clarkcountyswmn.fieldscope.org/>

Click the login at the top right and click on the blue "Click Here to Register." Once you fill in all of the questions and submit, we'll approve your account and you are ready to upload your data.



*Lead educator, Judy Bufford, explaining one of the chemical tests*

## What are some of the features of FieldScope?

Once you upload data into FieldScope, there are powerful built-in tools to map and graph data. Your school team will be able to see not only your school data upload, but other program participant information. Here are some examples of products that you can create:

- **Trend analysis** – select desired parameters and track changes over time
- **Compare you site to other sites** – if your school is monitoring on the same tributary as another school, create a comparison of data upstream or downstream from your monitoring station
- **Present information** – Create maps and graphs to share your data with others
- **Highlight unique findings** – If you team finds something interesting or unexpected, Clark County monitoring staff can review and provide feedback

## How to learn more about using FieldScope?

Clark County staff are here to help. Our staff will lead trainings on FieldScope at the fall teacher trainings. Instructions and information will also be posted on the program web page.

[www.cityofvancouver.us/publicworks/page/watershed-monitoring-network](http://www.cityofvancouver.us/publicworks/page/watershed-monitoring-network)

Clark County Clean Water Division staff will be monitoring the database and will help identify issues and answer questions. Visit the program web page for step-by-step instructions on how to conduct field investigations, such as initial site assessment, setting up a photo station, identifying erosion, habitat assessment and more.

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For questions or for more information, contact Rainy Rau [rainy.rau@cityofvancouver.us](mailto:rainy.rau@cityofvancouver.us) or Cory Samia [cory.samia@cityofvancouver.us](mailto:cory.samia@cityofvancouver.us) at the City of Vancouver's Water Resources Education Center. More information about the project can be found at: [www.cityofvancouver.us/publicworks/page/watershed-monitoring-network](http://www.cityofvancouver.us/publicworks/page/watershed-monitoring-network)

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