

a place of mind THE UNIVERSITY OF BRITISH COLUMBIA **Faculty of Science**

Environmental Science

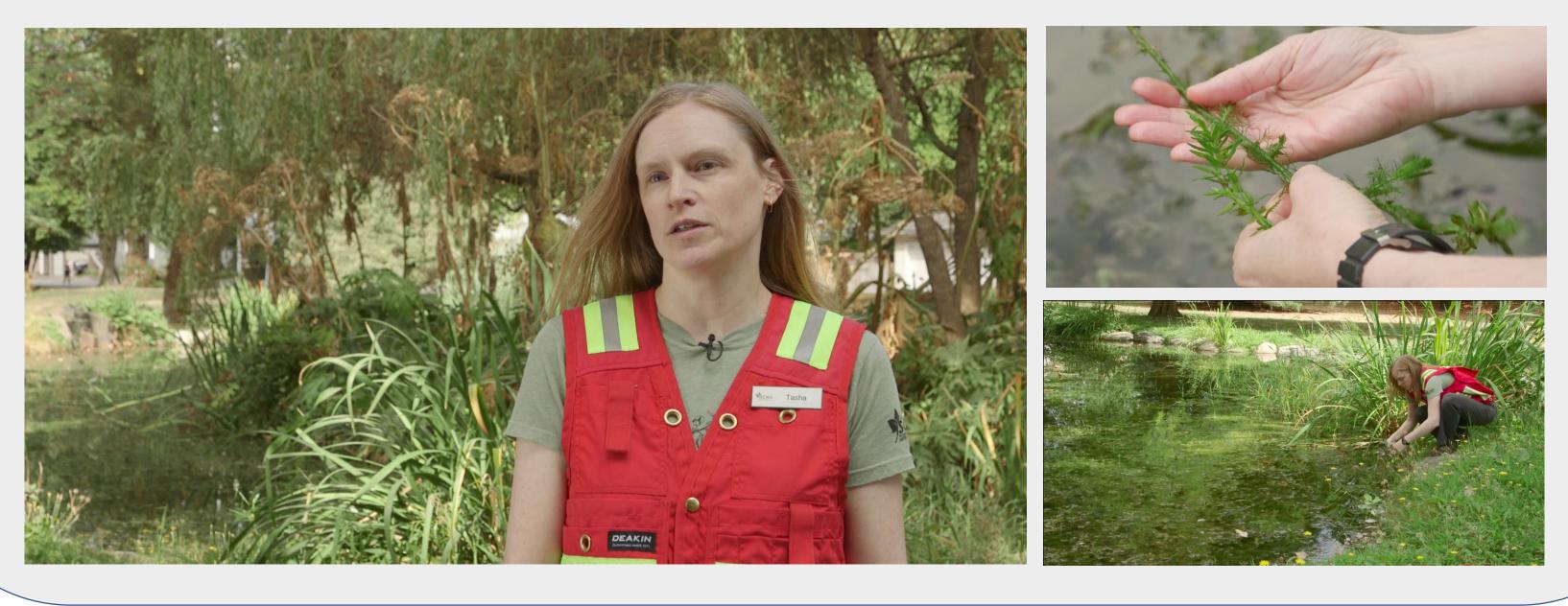
Background

- This TLEF funded project saw the research and design of 6 videos, 3-4 minutes in length.
- Looking to improve the use of guest lectures in the introductory Environmental Science course (ENVR 200), these videos allow community voices to remain integral to the course while
- improving the alignment between the student activity and the course objectives. • In 4th year, all Environmental Science majors complete a two-term Community Based Research capstone project. In preparation, this new in-class activity is designed to expose 2nd year students to real, local community challenges.

Video 1: Tasha Murray

Executive Director, Invasive Species Council of Metro Vancouver

Tasha explains the need for local approaches to invasive species management. In this video, she discusses two cases of invasive species that have become problematic in the Vancouver area: Hog Weed and Fire Ants.



Video 2: Shaun Strobel,

Fisherman, Skipper Otto, Community Supported Fishery (CSF)

Shaun Strobel explains why monitoring fish stocks is necessary for sustainable fishing and discusses the notion of "eating with the ecosystem" as a viable option that fisheries can practice as a way to manage sustainable fishing operations.



Additional Videos



John van der Eerden, B.A.Sc., M.Eng, Vice President, Associated Engineering, Water Resources

Sustainable design: flood protection in the lower mainland.



John Gibeau, B.SC., MBA, President, Honey Bee Centre Honey Bee Education, Crop Pollination Services

Maintaining honey bee health: a sustainable future for local agricultural.

Increasing Undergraduate Authentic Science Pedagogy using Community Focused Videos Tara Ivanochko¹, Alison Jolley¹, Michael Sider², Brad Jackson³, Michael Lipsen¹

¹Earth Ocean and Atmospheric Science, ²UBC Studios, ³English Language and Literature

individuals from the Vancouver region were interviewed about environmental relevant issues.

Research

- podcasts, research databases, and the city of Vancouver and metro Vancouver websites), we vetted potential research projects to determine potential interview candidates investigating global issues at a local scale while encouraging ecological sustainability.
- Using multiple forms of media (internet sources, news sources, • We chose members from the community that are devoted to



Bruce Blackwell, M.Sc., RPF, R.P.Bio., Principal, B.A. Blackwell and Associates, Fire Ecology and Fuel Management

Community Wildfire Protection Plans for the wildland urban interface.

Filming Interviews

- Interviewees were sent the questions prior filming to allow them to develop sound arguments.
- 1 1.5 hour interviews were filmed in a relevant location. Supplementary footage of their context and their work was filmed when possible.
- All interviewees were encouraged to guide the content and speak
- Interviews conducted by Brad Jackson, filming by UBC Studios about issues of importance to them and their work.

In-Class Activity: Scoping Science to Meet Community Needs **Three 50 - minute Activities:** Video, Individual Assignment, Small Group Discussion, Class Debrief **Three opportunities for reflection:** End of week journal

Listen to the Community: Video 1

Summarize a Challenge

> Ask a Question

Identify Data

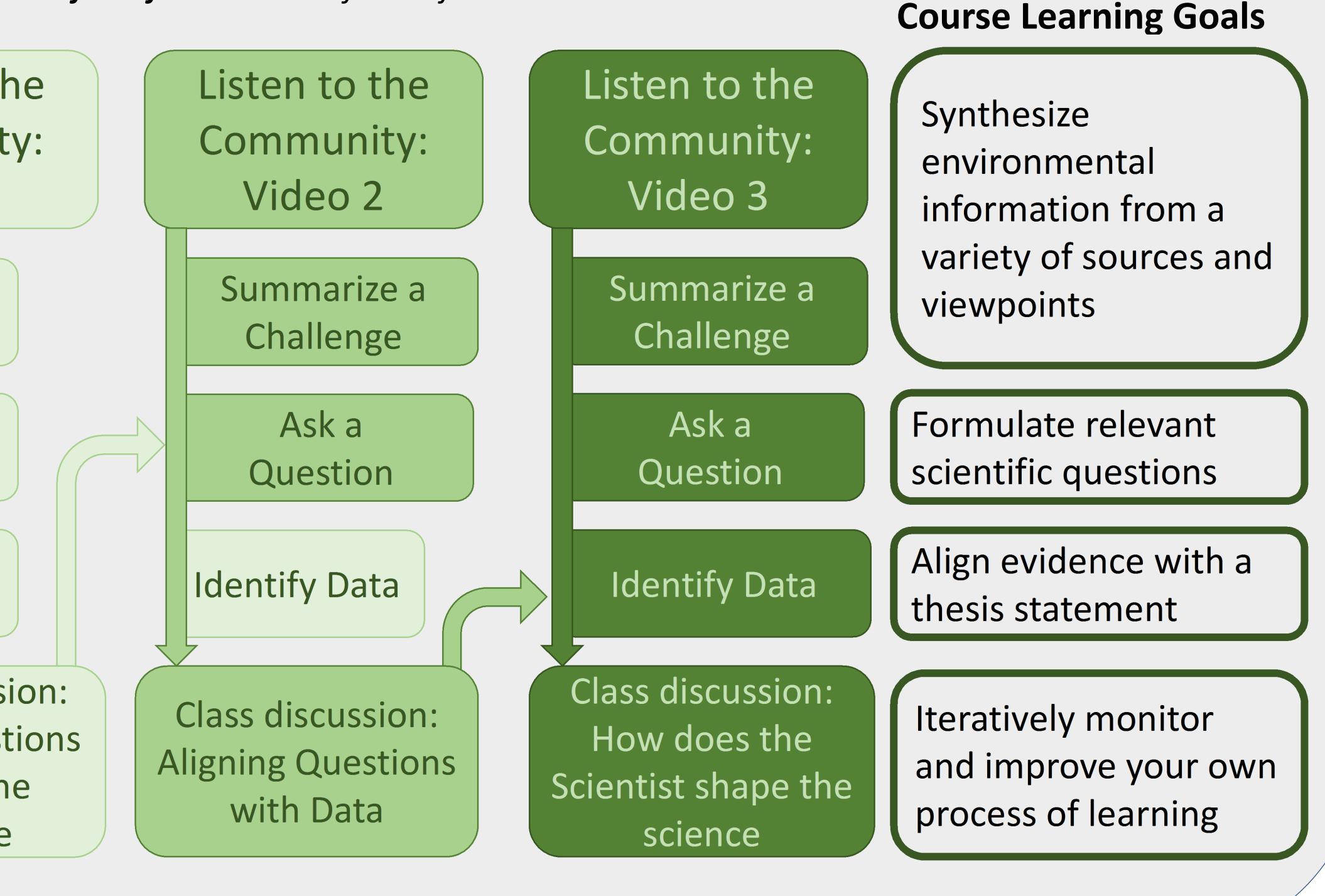
Class discussion: Scoping questions to meet the challenge

Pre-Interview

- videos.

Editing

- include:



Thanks to the UBC Teaching and Learning Enhancement Fund

• The pre-interview was used to make first-contact with potential interviewees to determine whether their interests met the requirements of our project.

• Information attained during the pre-interview developed a broader understanding of interview topics, that later helped to structure the

• Shot location and the structure of the filmed interview were also discussed for time efficiency on the day of filming.

• Collaborative effort: Tara Ivanochko (EOAS Faculty), Brad Jackson (Graduate Assistant), Michael Sider (UBC Studios Producer) • 1-2 themes chosen per video, 3-5 minute final edit prepared to

- 30 second introduction of the subject and their work - exploration of 1-2 themes and real world applications - supplementary footage to provide context when possible • More themes could easily be retrieved from the filmed material