

Program/Course Health & Safety Form

Date: 8/3/2020	Campus: Langley (off campus)																				
Faculty: Science and Horticulture	Programs affected: Environmental Protection Technology (required course) ENVI 1216 L10																				
Date of first group of students meeting: 2/5/2021	Date of first group of students leaving: 2/5/2021																				
Date of fourth group of students meeting: 2/12/2021	Date of fourth group of students to leave: 2/12/2021																				
<p>Number of students anticipated off campus and on which days: The students will be split into four groups (4 or 5 students/group). Each group will be on the field site for a single period of three hours. The key activity (stream flow measurement) can be carried out by a pair of students in about one hour. Other students carry out other activities (infiltrometer, eg) until the first group has completed its turn.</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Group</th> <th>Students</th> </tr> </thead> <tbody> <tr> <td>5-Feb</td> <td>9.00-12.00</td> <td>A</td> <td>5</td> </tr> <tr> <td>5-Feb</td> <td>13.00-16.00</td> <td>B</td> <td>5</td> </tr> <tr> <td>12-Feb</td> <td>9.00-12.00</td> <td>C</td> <td>5</td> </tr> <tr> <td>12-Feb</td> <td>13.00-16.00</td> <td>D</td> <td>5</td> </tr> </tbody> </table>	Date	Time	Group	Students	5-Feb	9.00-12.00	A	5	5-Feb	13.00-16.00	B	5	12-Feb	9.00-12.00	C	5	12-Feb	13.00-16.00	D	5	<p>Number of employees on campus to support this program and on which days: 1 faculty member each day</p> <p>Instructors Name: John Martin</p>
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Rationale for why students need to be off campus:

Location: Williams Park, 6595 238th Street, Township of Langley

Rationale for the location:

This location has been identified by the instructor as the only local site that can provide both safe access and a reliable flow regime to conduct the activity. Other sites are either unsafe due to depth or excessive flow rates or are too small to provide an effective space for the learning outcomes needed.

Rationale for the activity:

In this off-campus activity students learn how to measure a cross-section of a flowing creek as well as water velocity using a variety of water flow measuring devices. They use these measurements to estimate the total flow in the creek. They also conduct a series of ancillary measurements related to the hydrology of the creek: soil infiltration rate and evaporation rate.

While the calculations and some of these measurements could be carried out on-line, the key element of this activity requires a pair of students at an appropriate field location. Measuring the stream cross-section requires two students: one using a surveying level while the other wades through the stream with a measuring rod. The requirement that the creek be safely crossed (using hip-waders) and meaningfully measured requires a reasonably firm bottom, restricting the number of appropriate sites. Measuring water velocity at different points also requires a pair of students.

The lessons gained by the students from realistic field conditions are considered critical to the learning outcomes and skills acquired by the EPT graduates. While the main concepts may be acquired from on-line learning, the skills developed from using actual equipment (including all scenarios of poor weather and finicky adjustments) in an actual creek (where practice at securing a footing sufficiently stable for good measurements) cannot be acquired in any setting other than field conditions. TAC, our accreditation auditors, expect proper field skills to be delivered by the program, and comfort with sampling in flowing water is one of them.

Have you informed the Registrar of the scheduling requirements for this course? Yes/no and when informed?

The scheduling office will be notified on August 21st.

PPE requirements for students, faculty, and staff (quantity needed).

Risk from breathing aerosols:

Students will not be in close contact with one another or the instructor; the open air site ensures a safe distance can be maintained at all times. Students working in pairs (eg, surveying) are required to be apart by the nature of the exercise. A mask will be required if a safe distance of 6 feet cannot be maintained.

Risk from physical contact with surfaces:

- Sanitizing spray (70% alcohol solution) –8L (2L for each group)
- Extra paper towels
- Boxes of latex gloves (all sizes)
- 5 cans of disinfectant spray (Lysol or other approved brand) for disinfecting inside of waders after use
- Portable waste bin (for discarded gloves, wipes, etc)

All shared equipment (surveying level, surveying rod, flow meters, etc) will be sanitized using spray and wiped before transferring to another student. Students will be asked to wear disposable gloves before handling any equipment to be shared. Enough hip waders will be brought to the site to avoid students having to share, waders will be disinfected at end of day and stored till next week.

All shared equipment will be further sanitized between labs.

Other risks:

Students will conduct every activity as part of a pair or a trio of students; all risks inherent to field work (tripping, etc) will be immediately detected and addressed. No extra equipment is required as it is a standard feature of all field sampling exercises.

Has there been consultation with the Faculty OH&S Committee or the instructor?

- The instructor has been consulted. EPT lab instructor Chris Hauta, BCGEU OH&S committee rep, has also been consulted.

Students must conduct Covid-19 self-assessment prior to arriving on campus and attending class.

Safety plan for employees and students upon arriving on site:

- Orient yourself to the site and observe conditions; dress appropriately for the weather.
- Maintain a safe distance on site at all times; if a safe distance of 6 feet cannot be maintained, a mask must be worn
- Put on gloves prior to handling any shared equipment
- Spray and wipe handled surfaces upon completing an exercise; return equipment to instructor for inspection (and further wiping as appropriate)
- Remove gloves and discard in appropriate container in a safe manner
- Move on to next part of exercise as directed by instructor; wait for instruction and do not come in close contact with a fellow student while waiting
- Once the exercise is fully completed, leave the site in an orderly fashion and ensure a minimum distance is observed

Safety recommendations for traveling to site:

- Ideally, students will come to the site individually in their own vehicle. There is sufficient parking to ensure proper distancing
- Should students who do not live in the same household share a vehicle, it is recommended that a maximum of two students share a vehicle, that they sit as far apart as practical, and that they wear masks at all time during the travel period.

Have you consulted with Dr. David Florkowski, AVPA before submitting this request?

Submitted by: Dr. Elizabeth Worobec, Dean, Faculty of Science and Horticulture

Approved by Provost and VPA:

Dr. Sandy Vanderburgh

Signature: Click or tap here to enter text.

Date: Click or tap to enter a date.

Approved by the Office of Health & Safety

Name: Click or tap here to enter text.

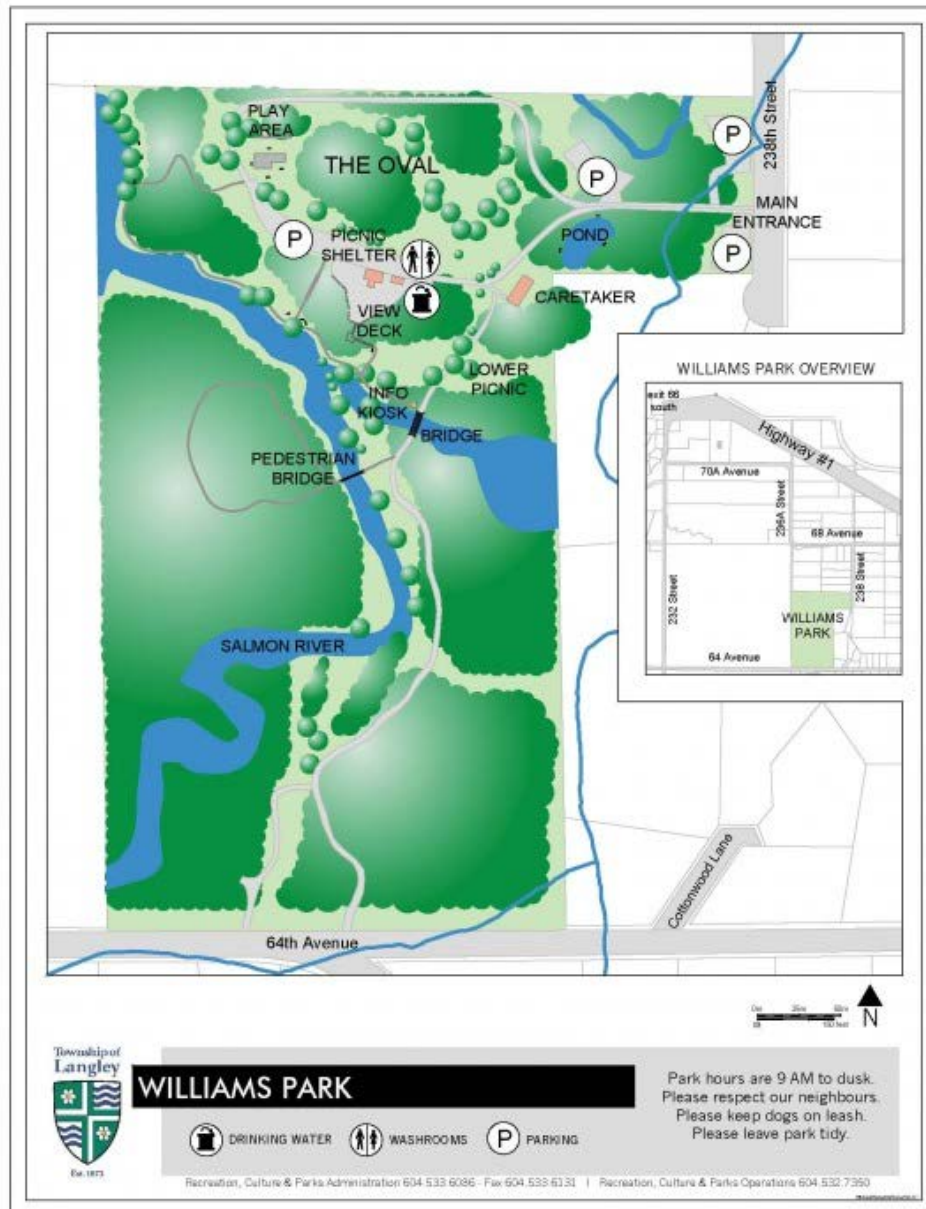
Pablo Dabud

Signature: Click or tap here to enter text.

Date: Click or tap to enter a date.

Location of site:

Park in parking lot at P. Follow wide trail down to site located after pedestrian bridge.



Three circles show the stations, all 10 m at least apart.

Red = discharge

Blue = Surveying

Green = Meteorology



COVID 19-Classroom/Shop/Laboratory Safety Plan Checklist

Department:

Campus:

Completed by:

Date:

Overview

- The following checklist must be completed for spaces being used for face to face activities/instruction.
- The intent is to ensure that minimum requirements are being considered to maintain safe spaces for employees and students in our classrooms, shops and laboratories.
- This checklist is by no means exhaustive and there may be other measures unique to your spaces that may need to be considered in developing your classroom/shop/laboratory safety plan.
- The requirements identified are consistent with the current guidelines provided by the Provincial Health Officer, BC Center for Disease Control and WorkSafe BC.

When completing this checklist describe the implementation details for each item indicated as “yes”.

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1. Orientation, information and training on the Department’s Covid-19 Safety plan has been provided to employees and students?

Yes

Not Applicable

2. Handwashing posters posted in all washrooms?

Yes

Not Applicable

3. Students/employees are reminded to practice good hygiene during class and to wash hands immediately before and after class?

Yes

Not Applicable

4. Nearest handwashing sink located, is stocked and has been identified to students?

Yes

Not Applicable

5. Students have been advised that no eating/drinking is permitted during classes in classroom/shop/lab?

Yes

Not Applicable

6. Physical distancing posters posted in classrooms/shops/labs and throughout the common areas?

Yes

Not Applicable

7. The maximum number of persons allowed in a space has been determined in order to maintain 2-meter physical distancing?

Yes

Not Applicable

8. Occupancy limit signage posted on door?

Yes

Not Applicable

9. Directional arrows to support flow of people throughout the teaching space are in place?
Provide a floor plan with your plan indicating direction of flow of people, location of workstations, entry and exit points.

Yes

Not Applicable

10. If applicable, Facilities has been notified of additional cleaning needs for building/classrooms/shop/lab?

Yes

Not Applicable

11. If applicable, Facilities has been notified of additional signage required for the classroom/shop/lab?

Yes

Not Applicable

12. Students have been provided instruction on where to spend their break time? (No social gatherings, leave the building, in their cars)

Yes

Not Applicable

13. Classroom/shop/lab set up to allow for 2 meters physical distancing between all occupants?

Yes

Not Applicable

14. Demonstration and work areas set-up to allow for 2 meters physical distancing?

Yes

Not Applicable

15. If physical distancing or other measures are not practical installation of barriers or sneeze guards has been considered?

Yes

Not Applicable

16. Handouts, papers, pens, etc. are not physically provided to students? (Use e-versions, students provide their own, etc.)

Yes

Not Applicable

17. When possible, students should have their own dedicated tools/equipment? (Items are not shared between students during class).

Yes

Not Applicable

18. Common touch points and tools/equipment that must be shared are identified?

Yes

Not Applicable

19. Cleaning and disinfecting program in place for cleaning/sanitizing shared tools/equipment and touch points?

Yes

Not Applicable

20. Students and employees are given instruction for the safe and correct use of any cleaning/sanitizing materials?

Yes

Not Applicable

21. Safety Data Sheets available for cleaning/disinfecting supplies?

Yes

Not Applicable

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22. Students/employees are given instruction for the safe and correct use of any provided personal protective equipment (PPE)? Instruct students/employees on how to safely use, remove, and dispose/clean (as applicable) any required PPE for the class. **Please note in regards to Covid-19, PPE should only be considered when physical distancing and other measures are not practical to implement.**

Yes

Not Applicable

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23. First Aid protocol has been reviewed with students and employees? Students in need of first aid to notify instructor and instructor to call First Aid Attendant. Follow directions of First Aid Attendant.

Yes

Not Applicable

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24. A process has been developed to deal with employees not following the control measures?

Yes

Not Applicable

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25. A process has been developed to deal with students not following the established control measures?

Yes

Not Applicable

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26. A process is in place to advise employees to stay home if sick, and how to report COVID-19 like symptoms? (Supporting measures should also be in place to accommodate absences and provide coverage, if applicable)

Yes

Not Applicable

27. A process is in place to advise students to stay home if sick and how to report COVID-19 like symptoms? (Supporting measures should also be in place to accommodate absences?)

Yes

Not Applicable

28. Students are advised to self-monitor and notify instructor if not feeling well?

Yes

Not Applicable

29. Employees are encouraged to self-monitor and to notify supervisor if not feeling well?

Yes

Not Applicable