

## Instructions

Answer the following questions at <https://erinandwilson.ca/scavenger.html> or on paper using one of the answer sheets provided (find Connor at the events or hall).

Many of the answers are difficult but all of the clues have at least one person in attendance who knows the answer. The cocktail hour from 5.30 to 6.00 at Terrace Gardens Hall is a good time to nab someone you haven't met before and trade some answers. And compare notes with your table group!

The deadline to submit your answers on the website or to Connor is:

**6:00PM CST Saturday June 21.**

## Legend

There are 4 sets of 4 questions; each set of questions (A,B,C,D) has a theme. The legend below is full of links to each question, so you can use it to jump to a specific question if you'd like.

A1	A2	A3	A4
B1	B2	B3	B4
C1	C2	C3	C4
D1	D2	D3	D4

## A Photo Clues

### A1: Payphone

Where is this phone booth located? As your answer enter the location number from the map a few pages below (Figure 5).



Figure 1: Phone Booth

### A2: Geodetic Reference Marker

Where is the location of this survey reference marker? Enter the location number from the map below (Figure 5).



Figure 2: Geodetic Reference

**A3: Garbage Can**

Where on the map below is this garbage can located? Enter the location number from the map below (Figure 5).



Figure 3: Erin with a Garbage Can

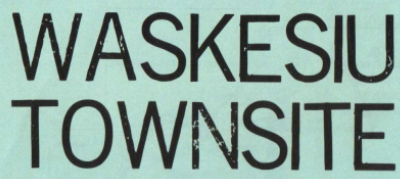
**A4: Rock**

Where on the map below is this rock? Enter the location number from the map below (Figure 5).



Figure 4: Erin with a Rock





## A PHOTO CLUES



## B Attendee Clues

### B1: Law

Today we overlook Waskesiu Lake, so it is appropriate to discuss navigable waterways. These are a particularly stimulating area of Canadian Law. Interestingly, the right to traverse a waterway lies under federal authority while the actual boundaries of the waterways are provincially administered, leading to differences between this province and those where our bar-crossed guests may be familiar.

What is unique among Saskatchewan's use of waterway boundaries?

1. Only in Saskatchewan does accretion cause new land to vest with the province rather than the parcel owner
2. Only Saskatchewan uses the term "bank" to define the boundary of its waterways
3. Only Saskatchewan applies a different definition of boundary to rivers versus lakes
4. Only Saskatchewan uses Ordinary Low Water Mark for its tidal waterways

Hint: Maggie knows a lot about these boundaries. Maybe she'll give you a hint...

### B2: Book Club

Which of the following books was not read by either Erin or Wilson (the others were all selected for their book club):

1. House of Leaves (Danielewski)
2. Nostromo (Conrad)
3. Black Garden: Armenia and Azerbaijan Through Peace and War (de Waal)
4. The Employees (Ravn)
5. Garden Against Time (Laing)
6. Frolic of the Beasts (Mishima)

**B3: Literature**

In the late December of 2024 Erin and Wilson spontaneously re-enacted the Robert Frost poem “Stopping by Woods on a Snowy Evening” near this area. One of them was indisputably the driver and the other was the horse. Who was the horse?

- 1. Erin
- 2. Wilson

Stopping by Woods on a Snowy Evening

Whose woods these are I think I know. His house is in the village though; He will not see me stopping here To watch his woods fill up with snow.	He gives his harness bells a shake 10 To ask if there is some mistake. The only other sound’s the sweep Of easy wind and downy flake.
5 My little horse must think it queer To stop without a farmhouse near Between the woods and frozen lake The darkest evening of the year.	The woods are lovely, dark and deep, But I have promises to keep, 15 And miles to go before I sleep, And miles to go before I sleep.

**B4: Gastronomy**

Where do Erin and Wilson recommend you travel to find the best gluten free yeast doughnut?

- 1. Vancouver, British Columbia
- 2. Halifax, Nova Scotia
- 3. New York City, USA
- 4. Milan, Italy
- 5. Cancún, Mexico

## C Waskesiu Clues

### C1: Flora

In the late 19th century the root of this plant, which you might see on the Boundary Bog Trail, briefly fell under colonists' medical scrutiny as a smallpox treatment. Study was not overwhelmingly successful; the main conclusion was that it caused heart abnormalities and a crusty dermatitis on the forehead and hands. Please do not eat.

1. Fescue grass
2. Balsam fir
3. Pitcher plant
4. Lady fern
5. Small bog cranberry

Hint: Maybe someone like Connor knows about the Boundary Bog and symptoms from eating random plants alongside trails.

### C2: Fauna

The common loon's call is heard on these lakes often. Loons have a few calls, three of which are very unique and easily identifiable. What is the nearest musical interval between the first two tones of this three-tone loon's wail: <https://erinandwilson.ca/scavenger/doc/loon-wail.mp3>.

1. Minor third
2. Horrible seventh
3. Perfect fifth
4. Haunted ninth
5. Octave

Hint: I found this one really challenging, but I have whatever is the opposite of perfect pitch. It might be because the tones are not all that close to any musical interval, I'm not sure. Good luck.

### C3: Architecture

The Waskesiu Golf Course was designed by Stanley Thompson, who is known for many other Canadian National Park courses including the Jasper Park Lodge and Banff Springs Hotel courses. Local flair at this course is a lobstick which takes a beating from tee shots.

On which hole of the Waskesiu Golf Course is The Lobstick a feature?

1. Hole 1
2. Hole 3
3. Hole 7
4. Hole 9
5. Hole 18



**C4: Travel**

Where do Erin and Wilson stop for fuel on the drive from Saskatoon to Waskesiu?

1. Saskatoon Circle K because of its superior coffee
2. Martensville Esso because the water is flavourless
3. Rosthern Co-op because the effective price is a minimum
4. Prince Albert Shell to bask in quietude of its vacant nighttime alleyways

## D Special Interests Clues

### D1: Calculus

Radiocommunications often involves transitions between continuous mathematics and discrete mathematics, which creates analysis problems that can be unexpectedly difficult. For example, signals from an antenna that are continuous voltages over time are sampled digitally, which truncates them down to a fixed point number via rounding. Then, digital signal processing might need to bin these signals in order to map them to a bytestream of data. The binning process can be expressed as a continuous integral.

Which is an expression for the indefinite integral  $\int \lfloor x \rfloor dx$  where  $\lfloor \dots \rfloor$  is the floor function (i.e. rounds down to the nearest integer less than its argument)?

1.  $\sum_{i=0}^{\lfloor x \rfloor} n(n-1)/2 + C$
2.  $x(x-1)/2 + C$
3.  $x^2/2 + C$
4.  $(2x - \lfloor x \rfloor - 1) \lfloor x \rfloor / 2 + C$

Hint: evaluate the definite integral for some random values like 0.5 to 1.5 and you can guess-and-check. Deriving this is a lot harder. At least one of the Kevins present might be willing to help you, because he's carefully plotted this function.

### D2: Natural Science

Wilson and Erin are now married, so it's socially acceptable for them to exchange entangled photons. Erin prefers the Bell State  $(|01\rangle - |10\rangle) / \sqrt{2}$  because it looks a bit like a sullen robot. She prepares this state and gives Wilson one of the halves, then she decides she wants to teleport the state  $(|1\rangle - |0\rangle) / \sqrt{2}$  to him. Because it looks like a wink face. She uses local quantum operations and measurements to prepare the teleportation.

How many bits of classical information does she have to tell him in order for him to construct this state out of the qubit he was given, assuming no transmission error?

1. 1
2. 2
3. 3
4. 4

Hint: Find one of the physicists. Aidan knows the answer, but what answers can you trade in return?

**D3: The Outdoors**

Erin and Wilson have canoed a lot in this park and only some of the trips featured harrowing experiences. Which of the following popular routes have they not canoed together?

1. The Bagwa Canoe Route between Bagwa Lake and Claire Lake
2. The Grey Owl Route between Waskesiu Lake and the Northend site of Kingsmere Lake
3. The Weird Seasonal Creek Route between Namekus Lake and Anglin Lake (OK, maybe this one isn't popular, but it counts here)
4. The Crean Lake Route between Crean Kitchen and the Hanging Hearts Lakes

**D4: Environment**

Urban trees are one of the most cost effective and powerful options for mitigating effects of climate change in Saskatoon.

Before Erin and Wilson moved away from Champion Crescent, they were able to directly benefit from the recent maturity of the tree Wilson applied for through the City of Saskatoon's Boulevard Trees program. What did they get?

1. Syrup by boiling the sap of their sugar maple
2. Nutmeat by boiling the acorns from their bur oak
3. Tea by boiling the needles of their jack pine
4. Rosewater substitute by boiling the flowers of their lilac