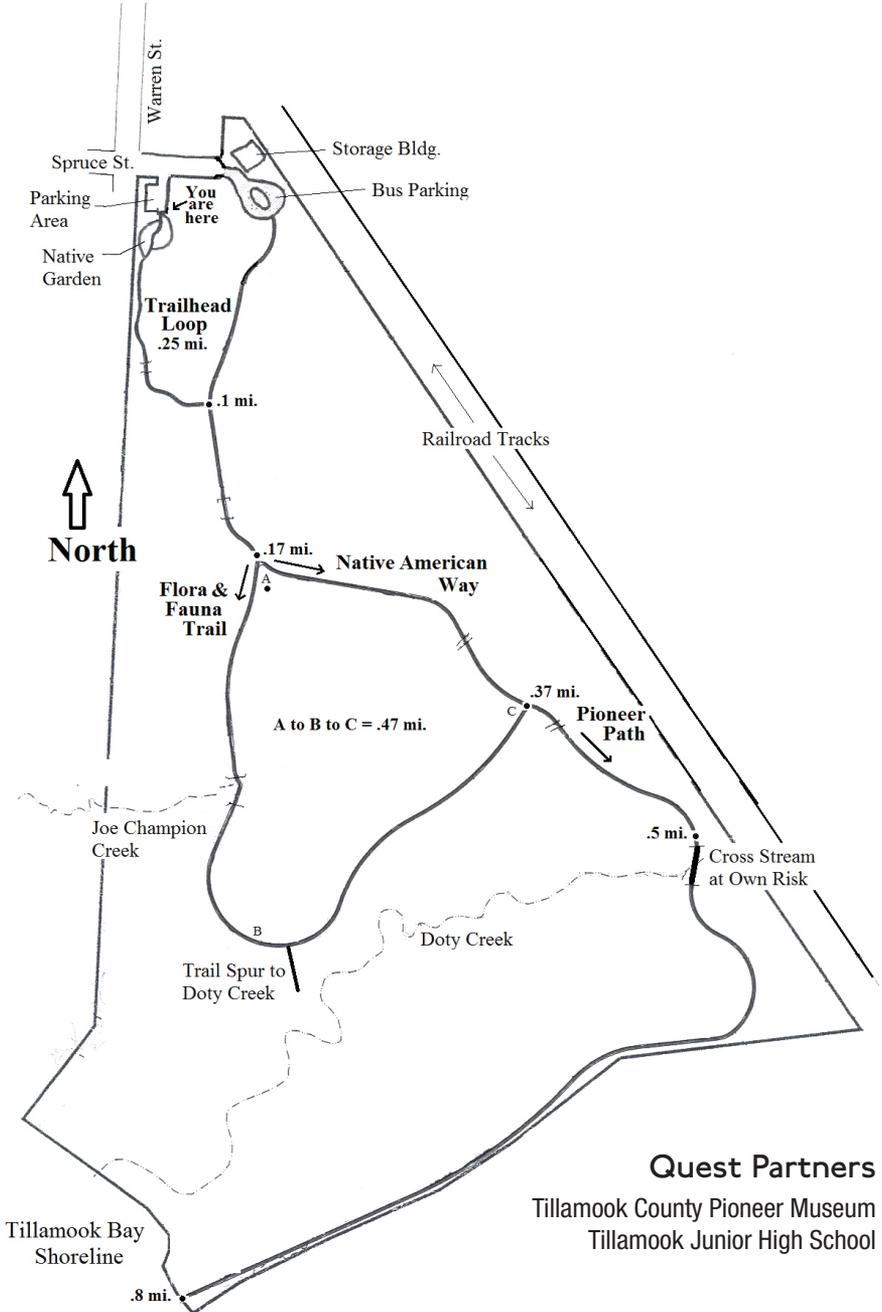


# Kilchis Point Reserve Quest

Use this map to help you solve the following Quest!



# Kilchis Point Reserve Quest

Established: April 2018 by the Tillamook Junior High ELD class

Box Monitor: Tracy Nuzum

## DRIVING DIRECTIONS

Traveling north on Highway 101 from Tillamook toward Bay City: As you just begin to enter Bay City limits, turn LEFT on Warren Street. Turn LEFT on Spruce Street. You will be able to see the trailhead parking lot.

Traveling south on Highway 101 from Bay City toward Tillamook: Turn RIGHT on Warren Street. Turn LEFT on Spruce Street. You will be able to see the trailhead parking lot.

## INTRODUCTION

Welcome to the estuary known as Kilchis Point Reserve. An estuary is a place where freshwater, such as a river, meets the saltwater ocean. Kilchis Point is 200 acres in size, and 33 percent of it is wetland. Wetlands are important; they protect us from flooding and produce habitat for wildlife. One-third of the world's endangered species depend on wetlands. Wetlands also provide us with an opportunity to observe and enjoy nature. They are home to plants and animals that form ecosystems.

There are three trails here:

- #1 Flora and Fauna
- #2 Native American Heritage
- #3 Pioneer Settlements

We encourage everyone to stop by and check it out. There are two miles of trails here, but you won't walk them all during this Quest. Wear sturdy shoes, because there is uneven ground, roots, and puddles. Water levels get higher in winter.

In this Quest, you are going to learn about the animals at Kilchis Point, including bobcats, cougars, black bears, amphibians, beavers, and muskrats.

Kilchis point has two interpretive loops. The Flora and Fauna trail has useful information for completing this Quest. You will find all this information along the Flora and Fauna Trail and the first loop.

Start at the kiosks across from the bathrooms.

Ready? Let's begin.

- You are visiting cougar habitat

Do not run. Make yourself look BIG. Back away \_\_\_\_\_.  
The letter used twice in the missing word is clue #7 and #19.

- Kilchis Point is black bear country

Do not run, fight back. \_\_\_ eye contact. Give the bear space when its cub is near it.  
The first letter of the missing word is clue #22.

**Follow the brick path down the trail.**

- Flora and Fauna Trail

Fauna is to animals as flora is to \_\_\_\_\_.  
The first letter of the missing word is clue #6 and #21.

- Make a difference at home

Recycle. Plant a native garden. Conserve \_\_\_\_\_.  
The fifth letter of the missing word is clue #2 and #11.

- Invasive plants

Himalayan blackberry was imported. English ivy was imported for ground cover. Scotch \_\_\_\_\_ was imported to stabilize sand dunes.  
The last letter of the missing word is clue #15.

**At the circle, bear right.**

• Rough-skinned newt

Newts are a type of amphibian that produce powerful \_\_\_\_\_ in the skin. Please do not handle the newts.

The sixth letter of the missing word is clue #1, #9, #10, and #23.

• Classifying wetlands

\_\_\_\_\_ – how much water and how long it stays. Vegetation growth – types of plants. Anaerobic – how much oxygen is in the soil.

The first letter of the missing word is clue #24.

• Amphibians and reptiles of Kilchis Point

Amphibians – lay their eggs in water. They attach their eggs to aquatic plants. They are born with \_\_\_\_\_ and develop lungs and legs as they mature.

The second letter of the missing word is clue #8 and #16.

Reptiles – lay eggs with hard, leathery shells. Reptiles are born with \_\_\_\_\_ that are already developed. Reptiles are covered in scales or horny plates.

The second letter of the missing word is clue #12.

**At circle #2, follow the Flora & Fauna signs to the right.**

• Animal tracks

We know which animals live here by the \_\_\_\_\_ they leave behind.

Bobcats have retractable claws. Cougars, bears, deer, squirrels, and raccoons live here.

The fifth letter of the missing word is clue #14.

• Kilchis Point food web

Biodiversity – wide variety of plants and animals in natural environment. An \_\_\_\_\_ is the interactions between a community of living organisms.

The first letter of the missing word is clue #3, #4, and #20.

• Importance of estuaries

Where freshwater from rivers and streams meets the \_\_\_\_\_ from the ocean or bay.

The first letter of the missing word is clue #5.

• Native ferns

Sword ferns live in all types of soil. Deer ferns prefer shade. \_\_\_\_\_ fern can grow six feet tall.

The third letter of the missing word is clue #17 and #18.

• Mammals

Little brown bats are \_\_\_\_\_, which means active at night. American beaver is the largest rodent.

The letter used twice in the missing word is clue #13.

Now that you have collected all your letter clues, use the message to help you find the hidden Quest Box. Remember, the box will be in a place where *only Questers will find it!* Sign the log book with the date, number of people in your group, and your thoughts about this Quest. Stamp your page to mark your accomplishment. Then put *everything* back in the box, seal it tightly, and return it to its hiding spot for the next person to find. Keep the location of the clues and box a secret!

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of the

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**21      22      23      24**

Stamp page 244 of this book to record your find!

*We would like to thank our supporters: NOAA & B-WET,  
along with the Tillamook County Pioneer Museum.*