# EOSC 110 Field trip

Name:

Location Map:

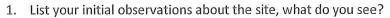


Source (Google Maps)

Stop 1 - Caulfeild (sp) Cove - West Vancouver



Source: Google Maps



- oxidation

2. What broad categories of rock can you identify here? (Igneous, sedimentary, metamorphic)

igneous.

3. How many different rock types? Describe them. Can you identify (name) any of these rocks?

4. What order did these rocks form in?

metamorphic felsic.

4. What order did these rocks form in?

- metamorphic ogneiss

- lawa = igneous ognamite dyonte

(3) granite.

### Don't stop 1a - Hwy 99

- 1. Throughout the trip, look for engineering structures you think help prevent landslides? (We will discuss this at stop 7)
  - a. concrete malls.
  - Eb. nets
    - c. Water ppe
    - d. barrier

    - e. gestextile.

      f. Long debois contament structure

#### Stop 2 - Lions Bay

1. Draw a cross-section through this structure below

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| Debris detention  |                           |
|---|---------------------------|
| 2. What is this structure for?  |                           |
| -to prevent   |                           |
| - and deboits   |                           |
| - liquefacton   |                           |
| 3. How does it perform its task?  |                           |
| spond e   |                           |
| Engler  |                           |
| from S  |                           |
| and avoid lique Fixton  |                           |
| 4. How would you classify this stream?                                    |                           |
| Xeest to every  |                           |
| Straight  |                           |
| 5. (How do you think the boulders got there?)                             |                           |
| by hymans and the corners   |                           |
| 6. Why is there a town built here?  |                           |
|   |                           |
| It 100 KS   |                           |
| flootfor and not very steeped   |                           |
| 7. Would you buy the house on the far side of the stream? Why or why not? | z                         |
| Mo.   |                           |
| Probably it has a nice view and is actually a                             |                           |
| and is actually a   |                           |
| me place trun boying  |                           |
| a would at the bottom   |                           |
| al " house where  |                           |
| mo strocture (commin)   |                           |
| was built to present  |                           |
| 1 / 1 / 10 1 / 2  | age <b>4</b> of <b>11</b> |

| Ston | 3 | - Stawamus  | Chief   | Sau | amish  |
|------|---|-------------|---------|-----|--------|
| JUD  | 0 | Stavvaillas | CITICI, | Jyu | HEILIK |

1. What do you see?

| big rock | battolith |
|----------|-----------|
| dyke s   |           |

2. Everyone grab a rock. Describe your rock.

| granite  | guartz.     |
|----------|-------------|
| felsic   | 2 diporties |
| orystals | ,           |

3. Is it the same rock as the Chief? If so what do you think it is? If not how did it get here?

| 1000   | les    | but  | Mey | were   | bough |
|--------|--------|------|-----|--------|-------|
| indous | Ros by | glac | ier | stream | us    |

4. Look at everyone's rocks. Is there diversity? Why or why not?

|      |       | ~      |
|------|-------|--------|
| Yes. | lava, | granne |

5. How did the Chief form?

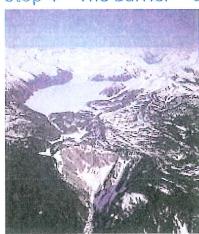
Mat formed deep inside he and was cooling slowly

6. What is the black linear feature in the middle of the cliff face? How did it form?

deste dyke water did from the trees weather Javid from the trees

Lunch! Squamish

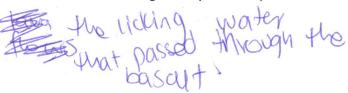
# Stop 4 – The Barrier – Garibaldi Park (or near the Barrier)



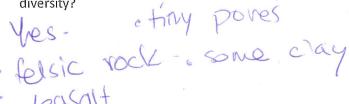
Describe the area.

Basalt - columns allevial fan talus slopes

2. What caused the large cliff up the valley?



3. With your group, collect some of the rocks in the floodplain. Describe your rock? Is there diversity?



4. How did these rocks get here?

lava froms

## Stop 5 - BC rail quarry, outside of Whistler

1. Describe what you see in this area

2. How many layers can you see? What do they mean?





1. Describe the area

is weak glacial fill clay Some quarts
2. What broad category of rock is this?

metamorphic rock

3. Can you identify the rock?

slates

4. How did this rock form?

from both sides bot pressure

Stop 7 - Glacial outcrop - Stawamus Chief, Squamish

1. What type of rock is this?

Evante Polished

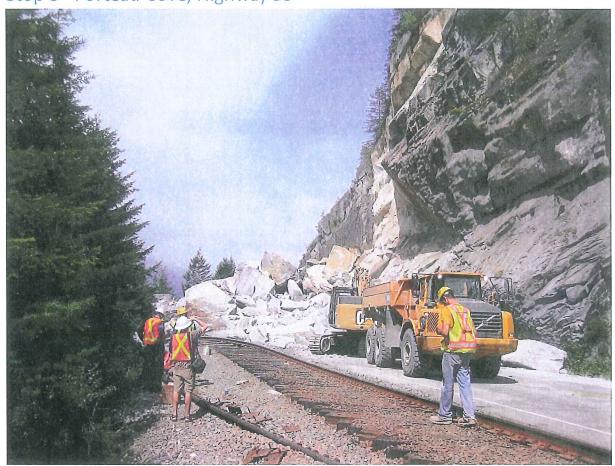
dy ke -> is basalt.

2. Why is it so smooth?

erode d by glaciars

3. Is it the same as across the street? How do you know?





1. Describe the area

It looks like a fjord in the side there are mountains, steep wills and the oceane, End moraine.

2. What types of hazards do you think can occur here?

landstides in the hills side.