

UNDERGROUND MINING

Terminology

Define the following terms as they relate to mining.

Vein -

Vug -

Adit -

Portal -

Shaft -

Stope -

Drift -

Breast –

Incline –

Decline –

Winze –

Hangingwall –

Footwall –

Headframe –

Cage –

Roof bolt –

Room and Pillar –

Bit –

Blast hole –

Muck –

Chute –

Run-of-mine –

Questions

Answer the following questions related to underground mining.

1) Describe the workings of a surface mine. (Hint: Use vocabulary)

2) Where are underground mines located in Park County?

3) What type of geological deposit(s) is/are mined underground? (Hint: where do hydrothermal fluids carrying the dissolved metals travel?)

4) How do underground mines use water in the mining process?

5) What environmental impacts are caused by underground mining?

6) What water quality impacts are caused by underground mining?

7) Describe the basics of solution mining or in-situ mining. What kinds of materials are mined by this process, and what are some of the environmental considerations? (BONUS)