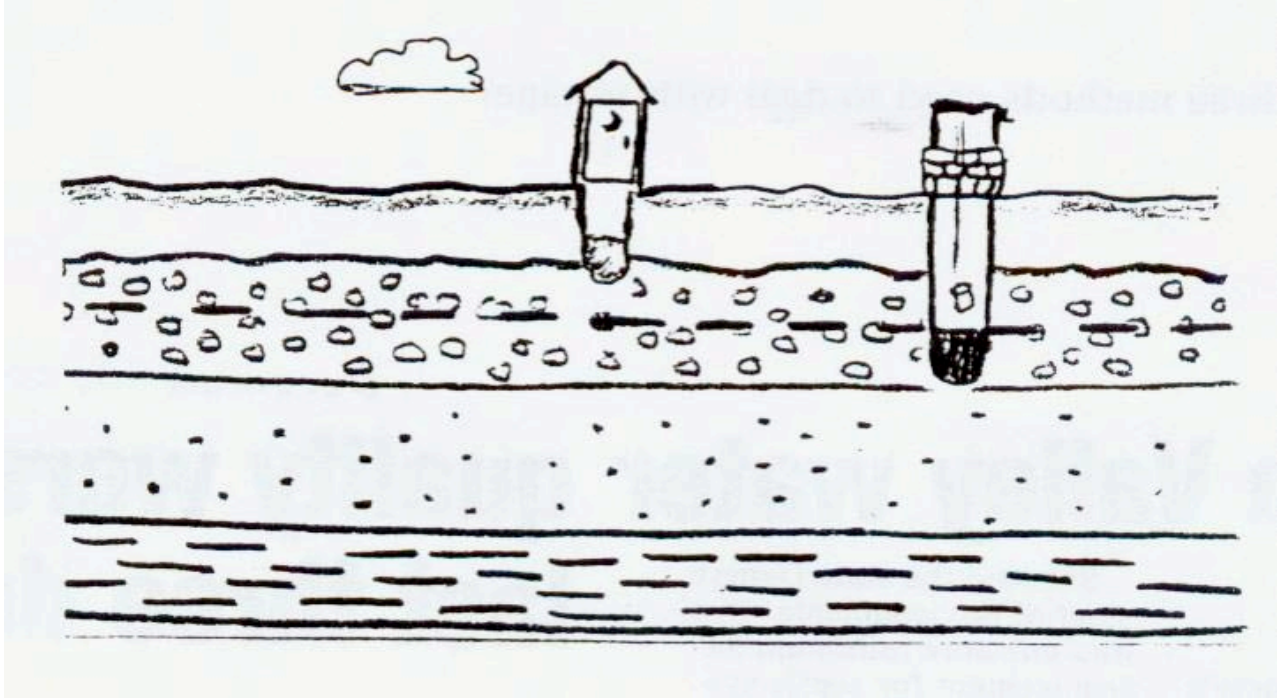


Notes: Intro to Groundwater

name: _____

1. List the following materials from most permeable to least permeable: shale, sand, gravel, clay, sandstone.

2. Label the diagram shown below.



3. What is the “water table”?

4. Spring Meadow Lake is actually an _____

5. What is an “aquifer”?

6. What type of rock material is the Helena Valley Aquifer made of?

7. What are the sources of recharge for our aquifer?

_____ % from leaking irrigation canals. _____ % from leaking streams that flow across.

_____ % infiltration from excess irrigation _____ % is inflow from surrounding mountains.

8. How is an “artesian well” different from regular wells?

9. What three conditions are needed in order for an artesian well to exist?

10. Why is groundwater so important?

_____ % of Americans drink it

_____ % of the USA’s freshwater is groundwater

_____ % of USA cities use it some way

11. What are the three methods used to dispose of sewage (wastewater) in the Helena area?

_____ : City of Helena and other larger cities

_____ : City of E. Helena, Townsend, East Gate,
most subdivisions

_____ : anyone not connected to a community
system

12. What are the three products of wastewater treatment?

_____ : This is burned off; it can be burned as a fuel

_____ : Helena puts this onto farmland east of East
Helena during warm months. During other months it is used to make compost at the landfill.

_____ : Helena puts this into Prickly Pear Creek

Read pages 171-180 (Honors 138-152).