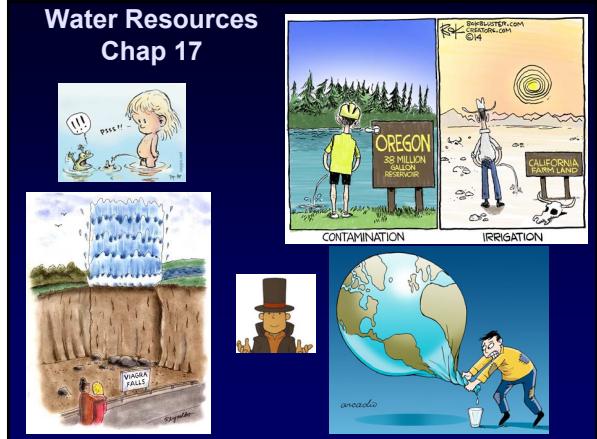


Water Resources

Chap 17



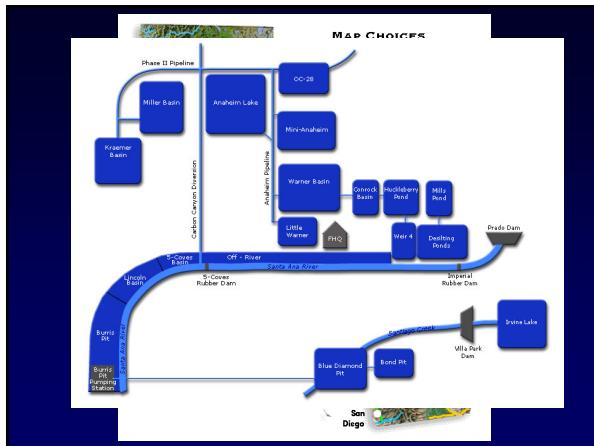
Snake River Plain, Southern Idaho

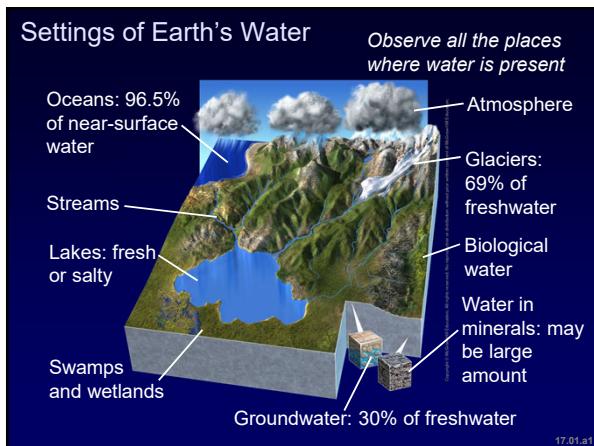
Snake River flows southwest; most cities and farms are near river

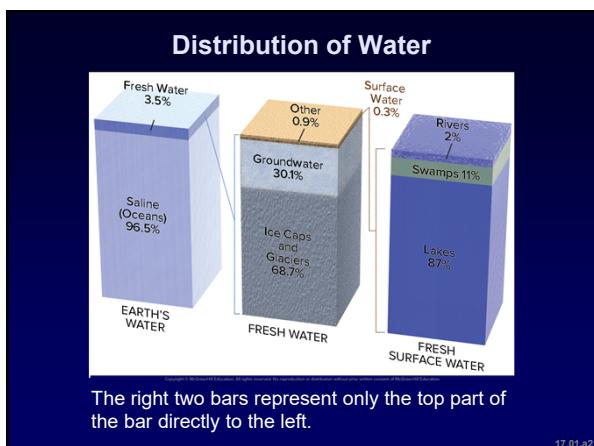
Water from rivers
soaks into ground

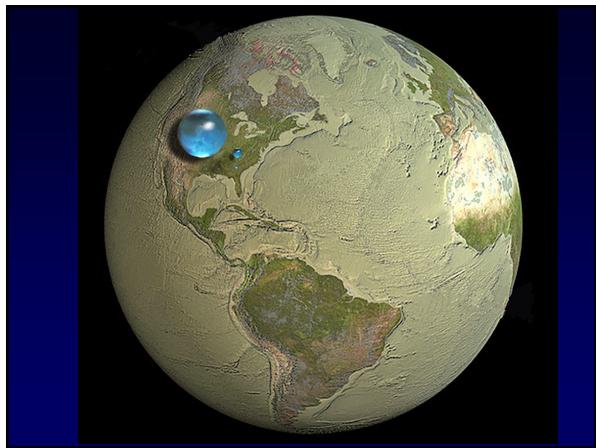
 Water re-emerges
in Thousand
Springs area

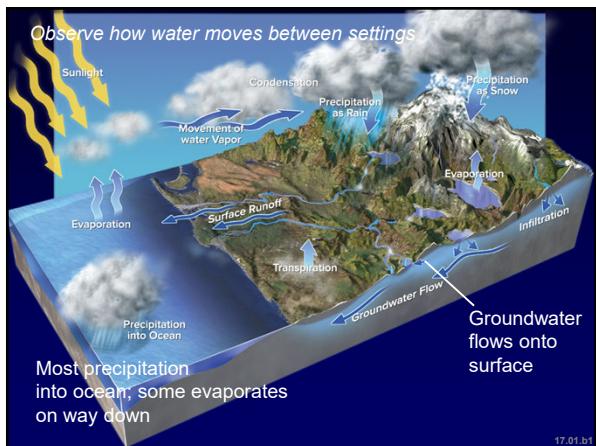
How does water move between the surface and subsurface?

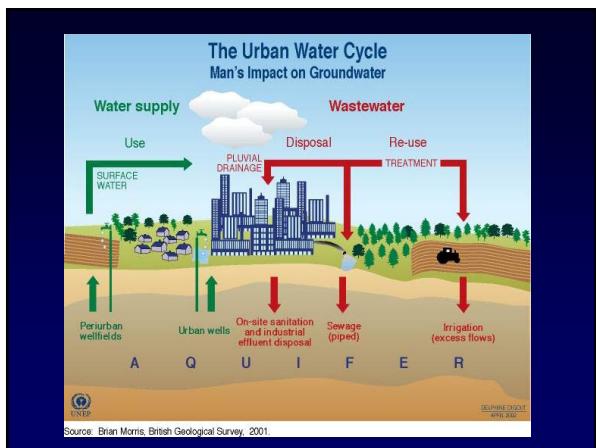


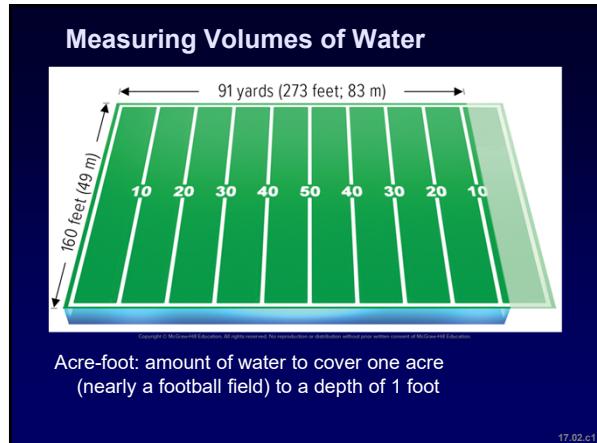
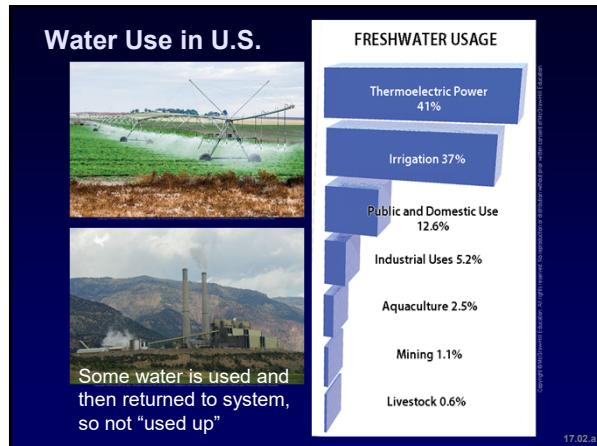






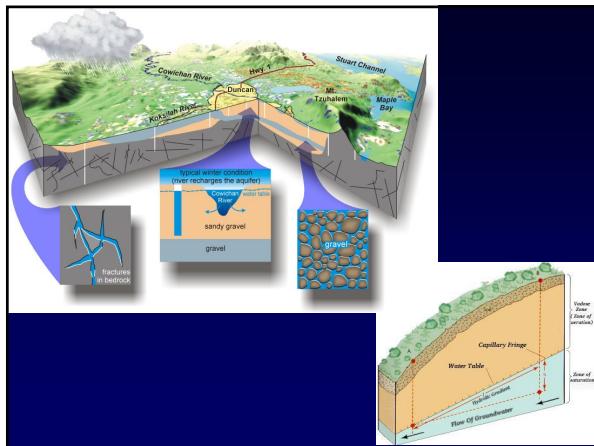


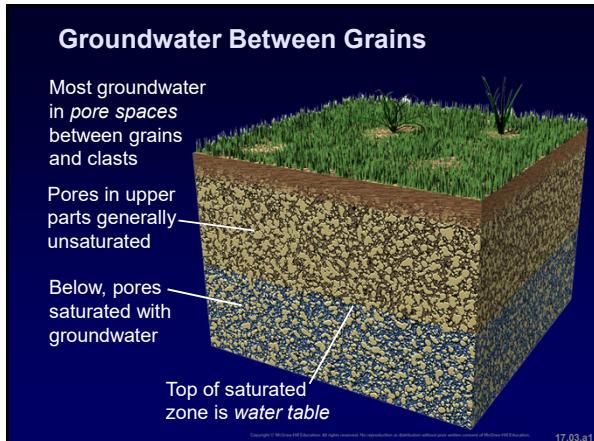


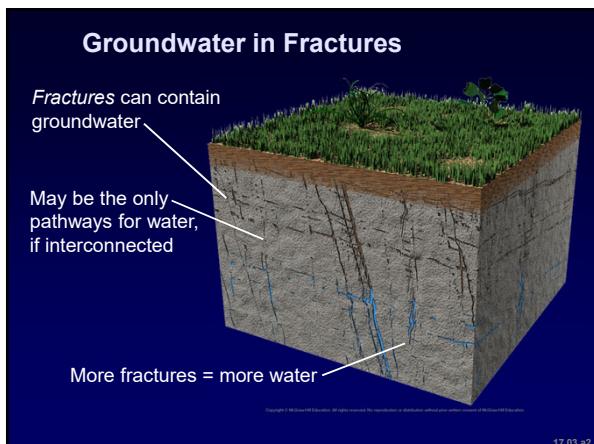


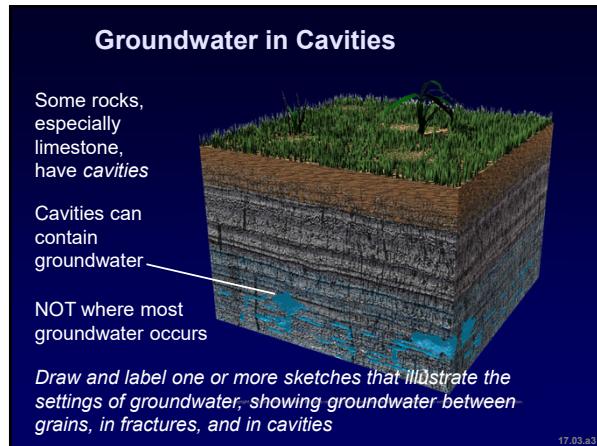
What are some settings where water is present underground (groundwater)?

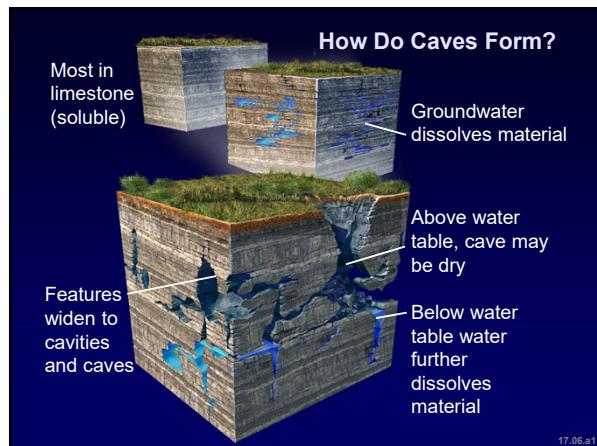
Draw a simple sketch of your thoughts











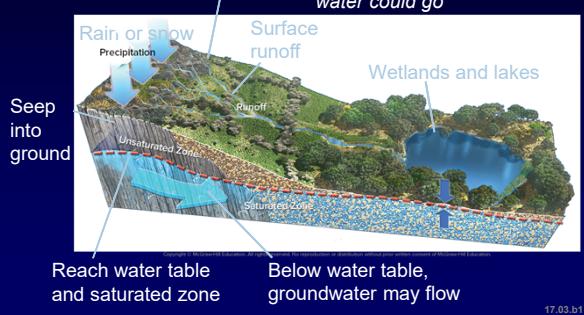


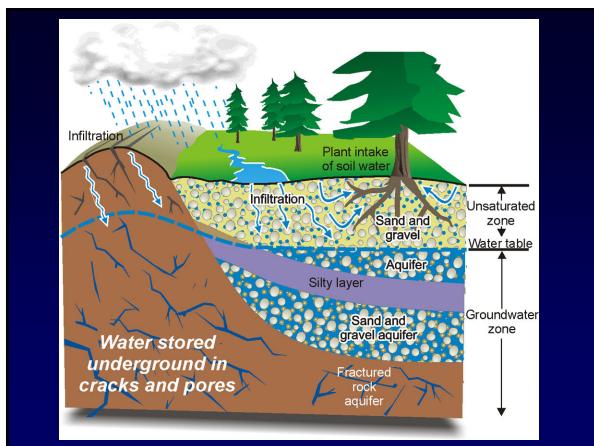


How Does Groundwater Accumulate?

Rain or snowmelt can evaporate or used by plants

Observe this figure and note all the places where water could go





Porosity: Proportion of Open Space

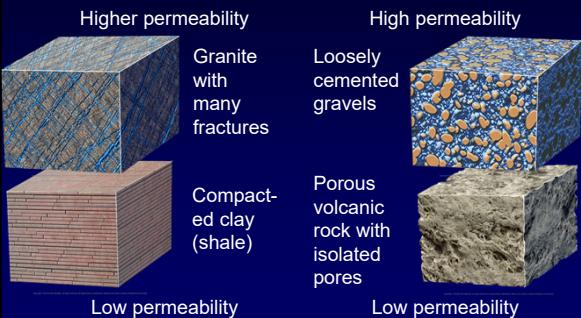
Which of the following have lower porosity and which have higher porosity?



17.03.c

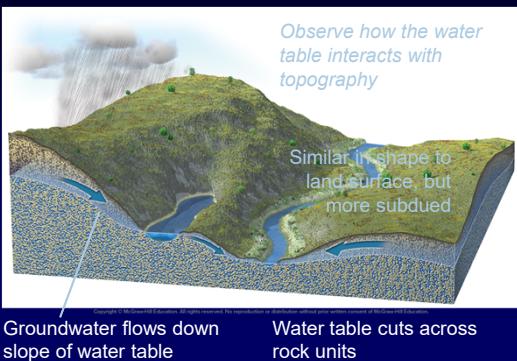
Permeability: Pores Connected So Fluids Flow

Which of the following have lower permeability and which have higher permeability?



17.03.c

What is the Geometry of the Water Table?

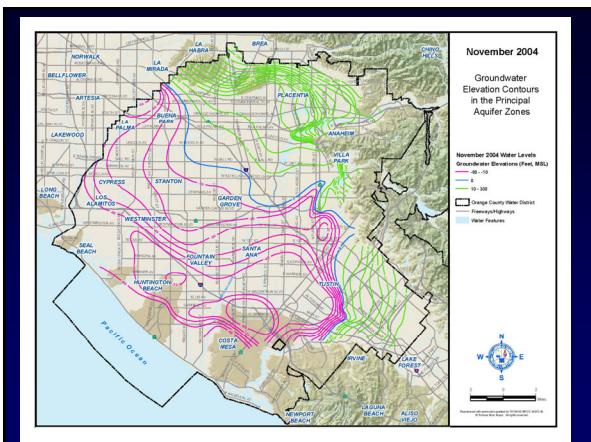


17.04.a1

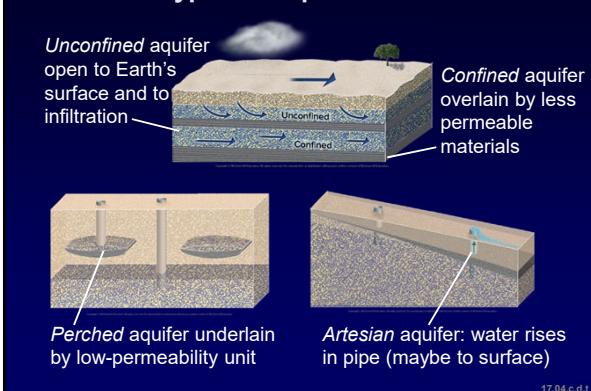
How Does Slope of the Water Table Influence Groundwater Flow?



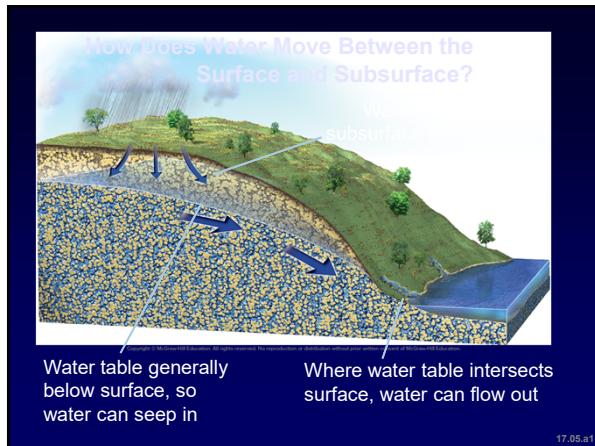
17.04.a,b

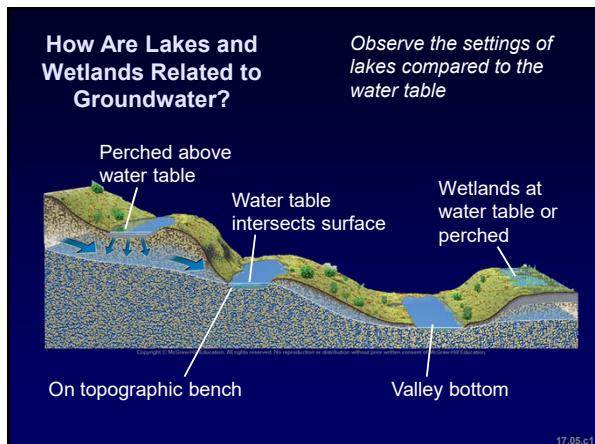


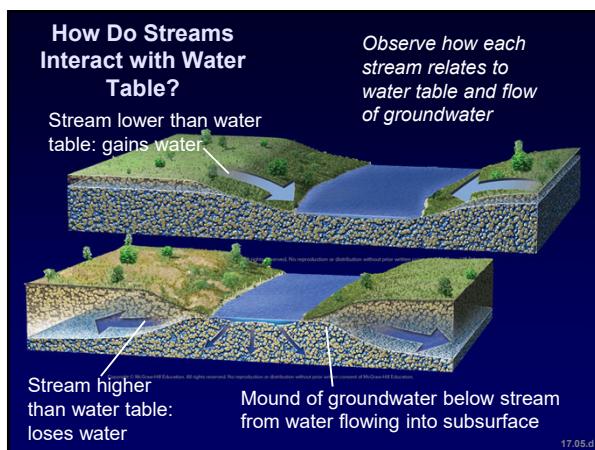
Types of Aquifers

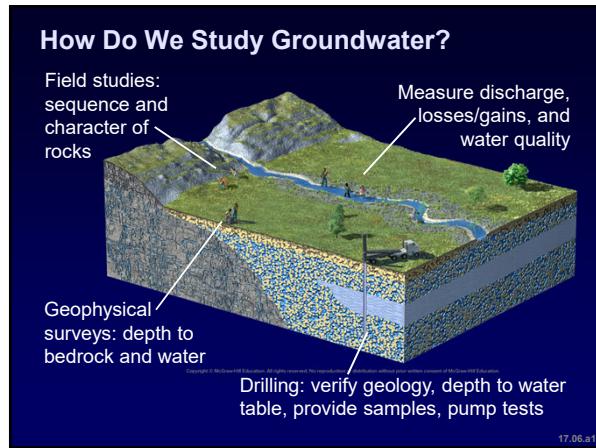


17.04.c,d.t



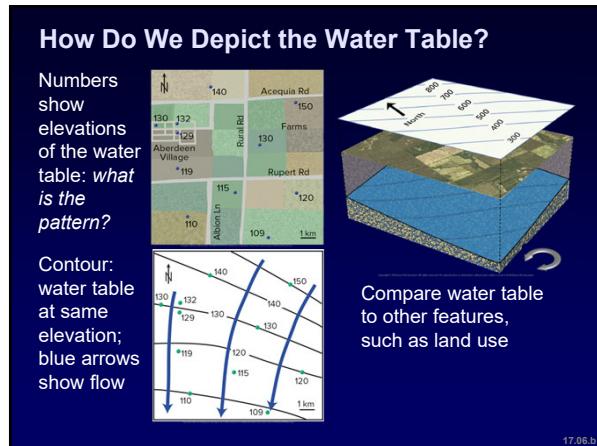


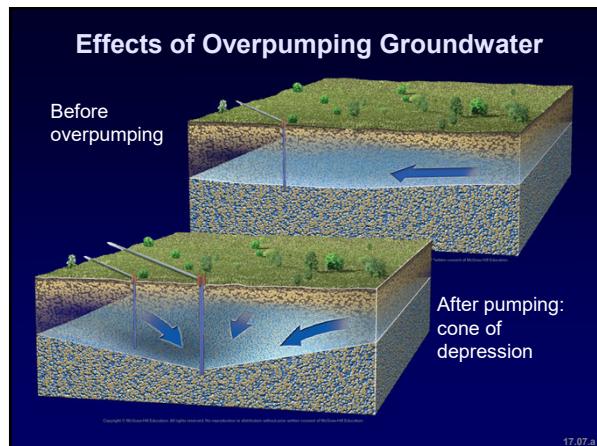


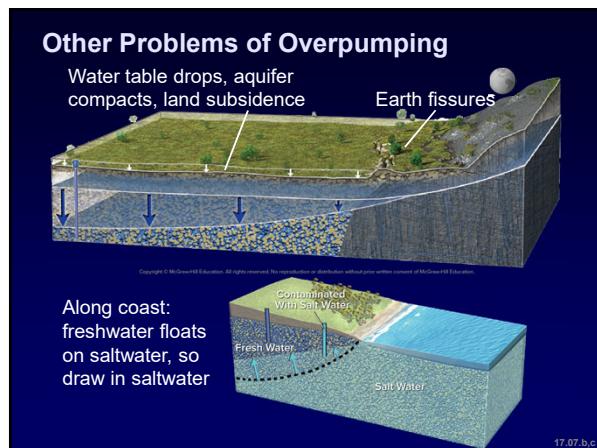


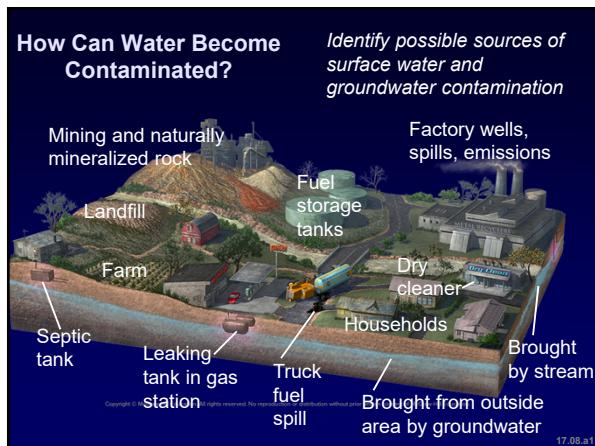


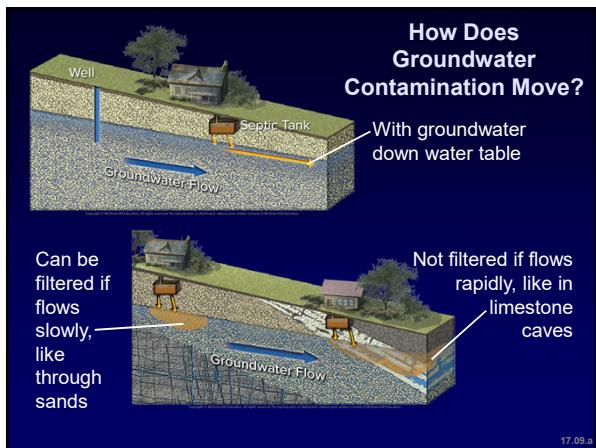


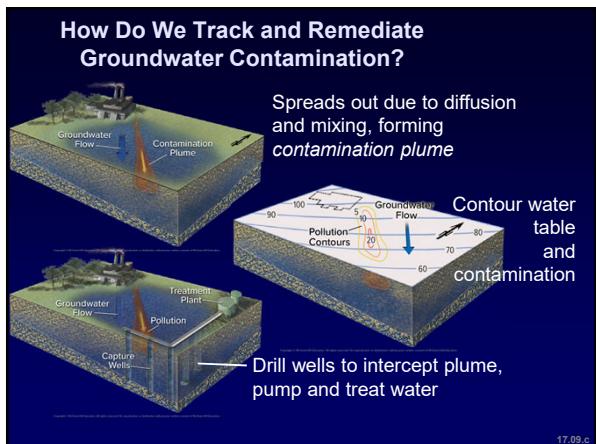




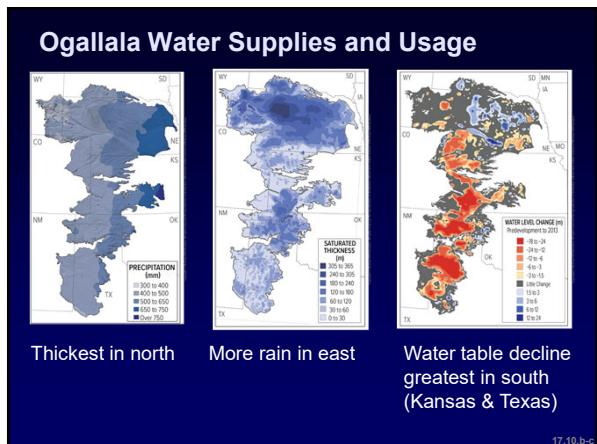
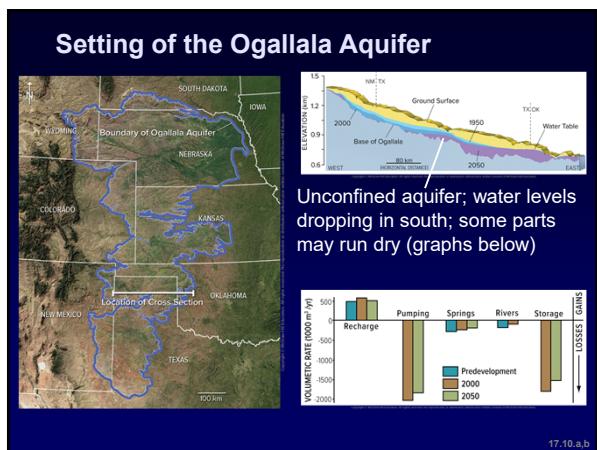


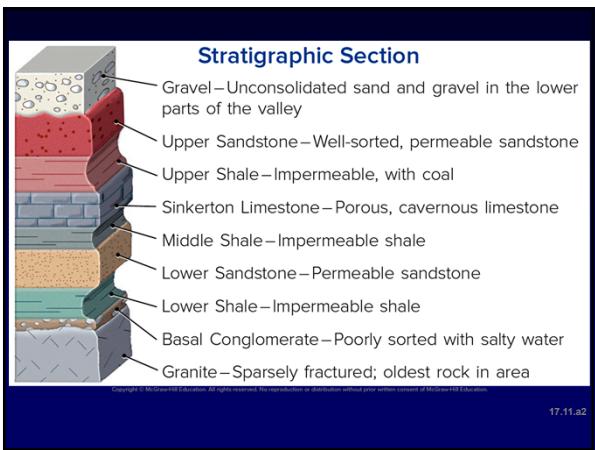












Investigation Data Table

Well	Elev. WT	mg/L	Well	Elev. WT	mg/L
A	110	0	I	130	30
B	100	0	J	130	0
C	105	0	K	120	0
D	110	20	L	130	0
E	120	10	M	150	50
F	115	0	N	150	0
G	120	0	O	140	0
H	120	50	P	150	0

Spring	mg/L	River	mg/L	River	mg/L
S1	50	R1	0	R5	0
S2	0	R2	20	R6	0
S3	0	R3	0	R7	5
S4	0	R4	0	R8	5

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17.11.a