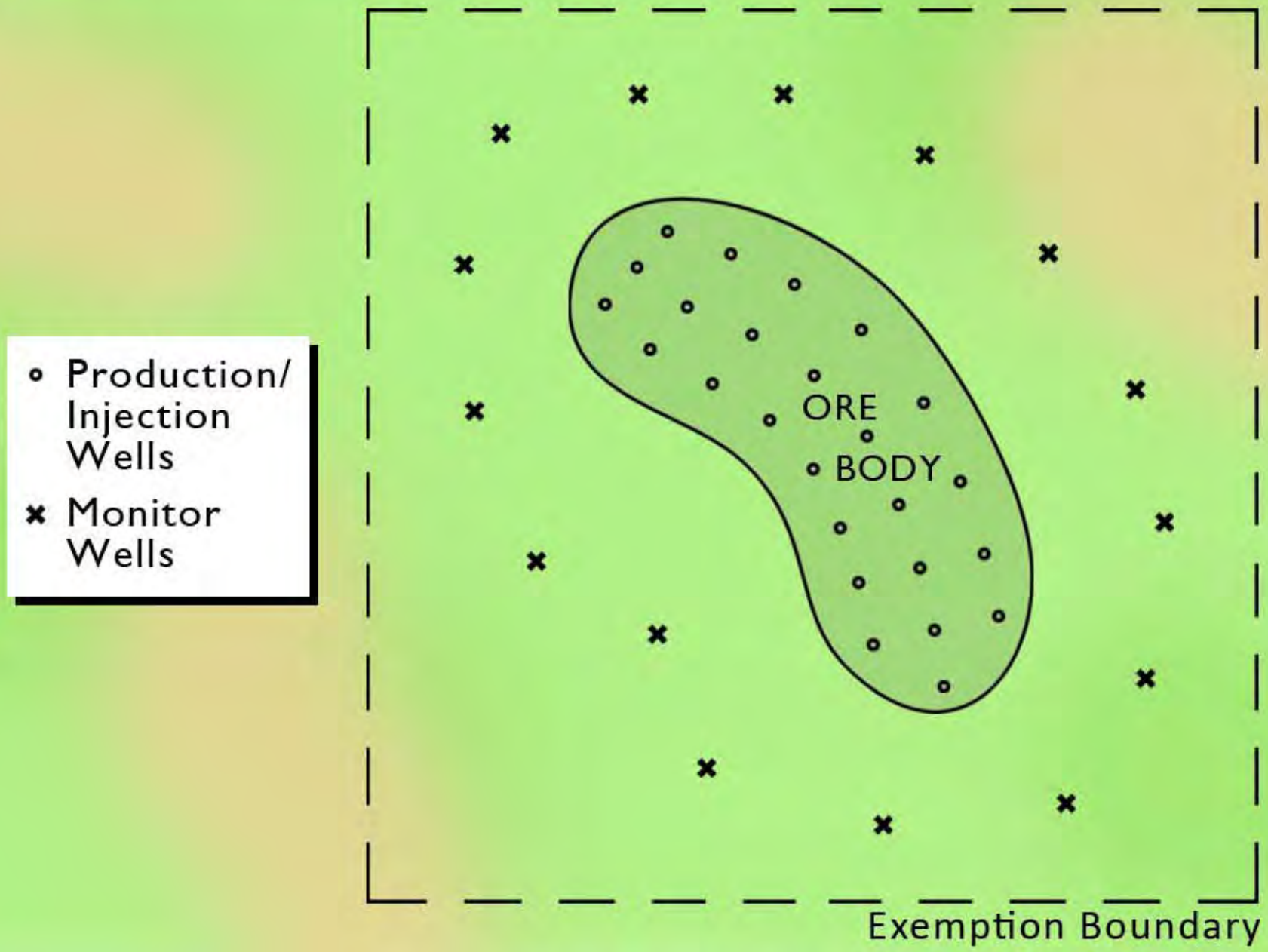
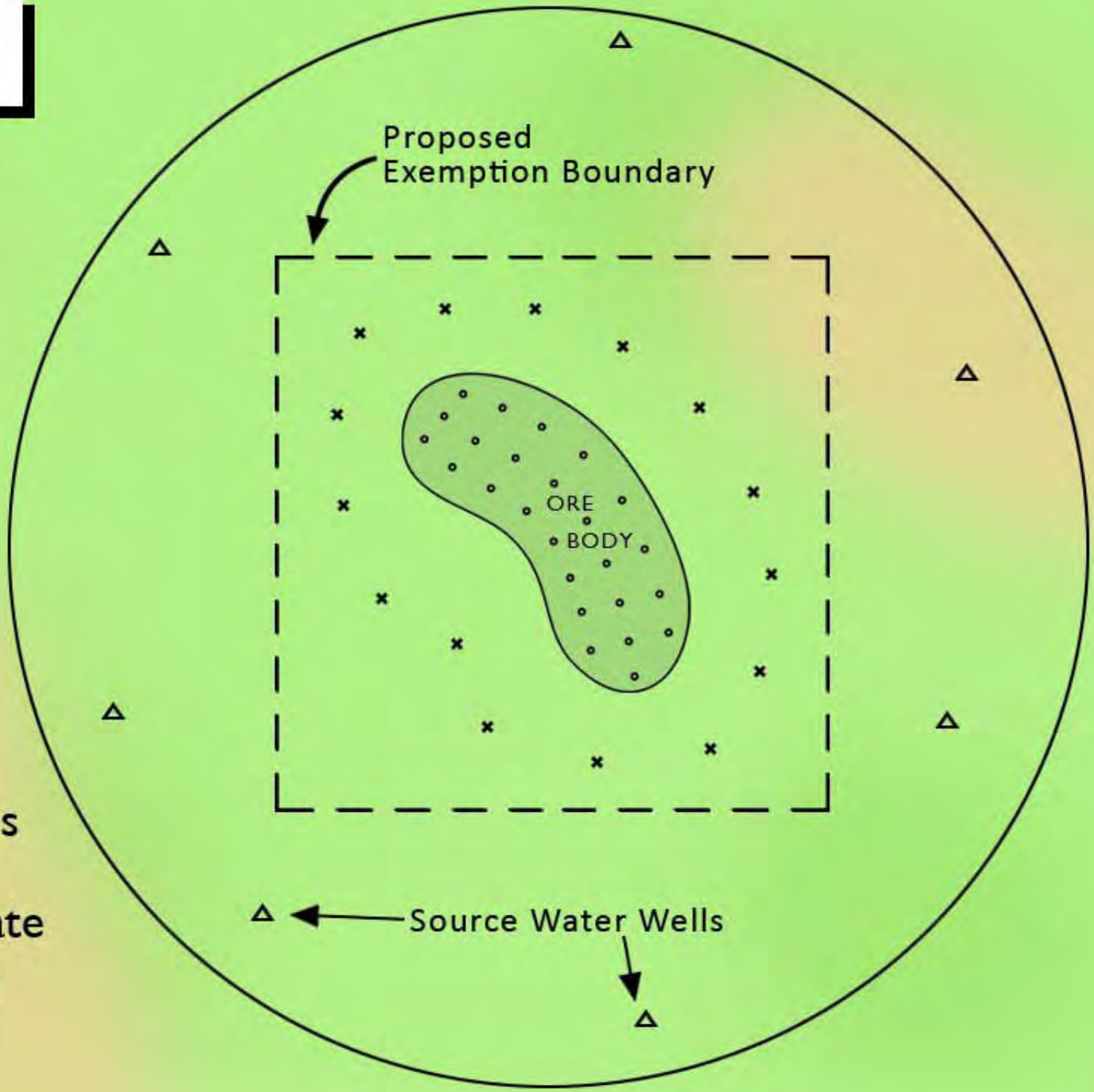
Hypothetical Mining Operation



Area of Review (AOR)

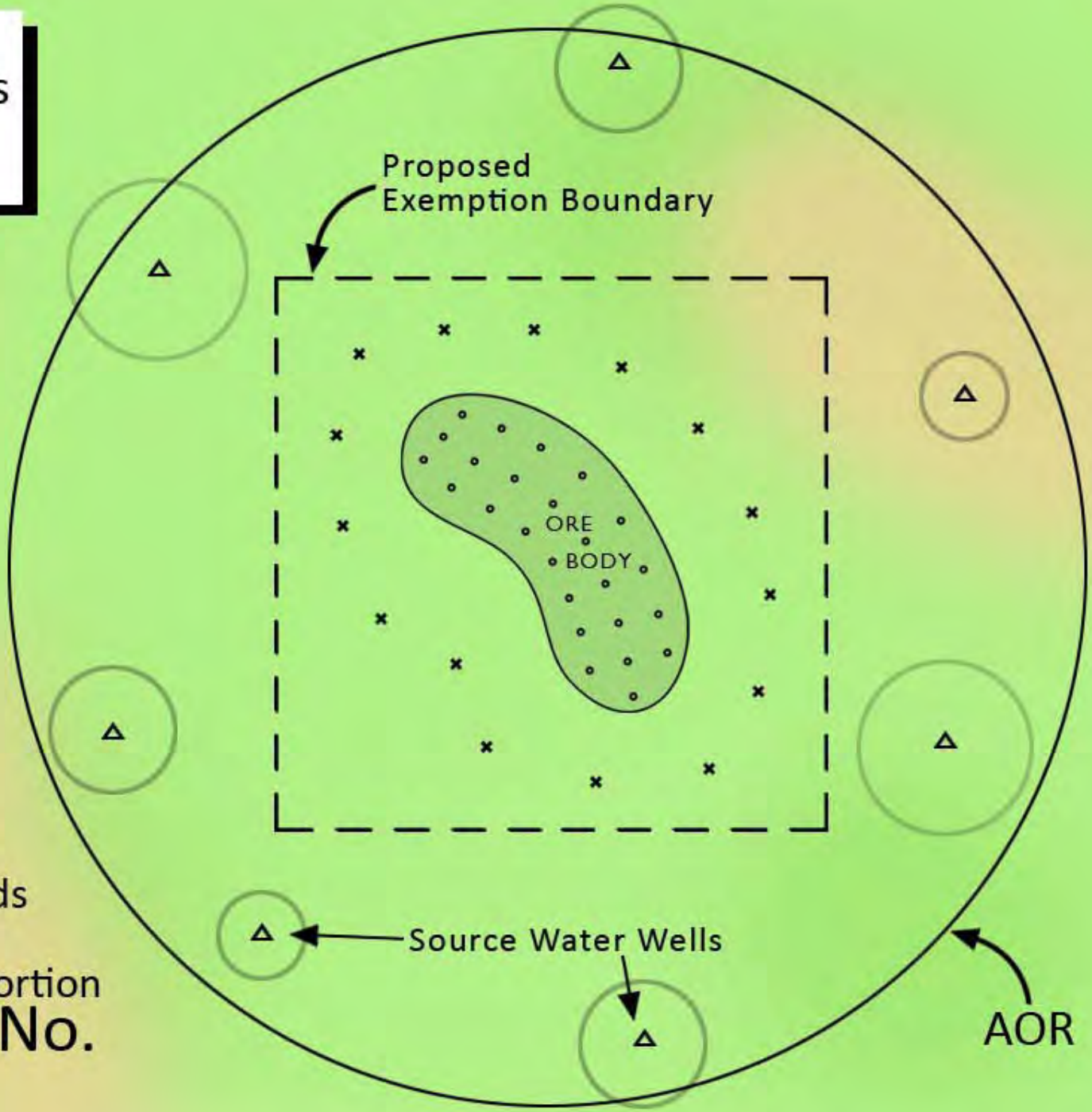
- ∘ Production/ Injection Wells
- × Monitor Wells
- △ Source Water Wells



Flow model takes into account: recharge, flow rate & direction, and withdrawl

Source water wells with cones of depression over time

- ∘ Production/ Injection Wells
- × Monitor Wells
- △ Source Water Wells

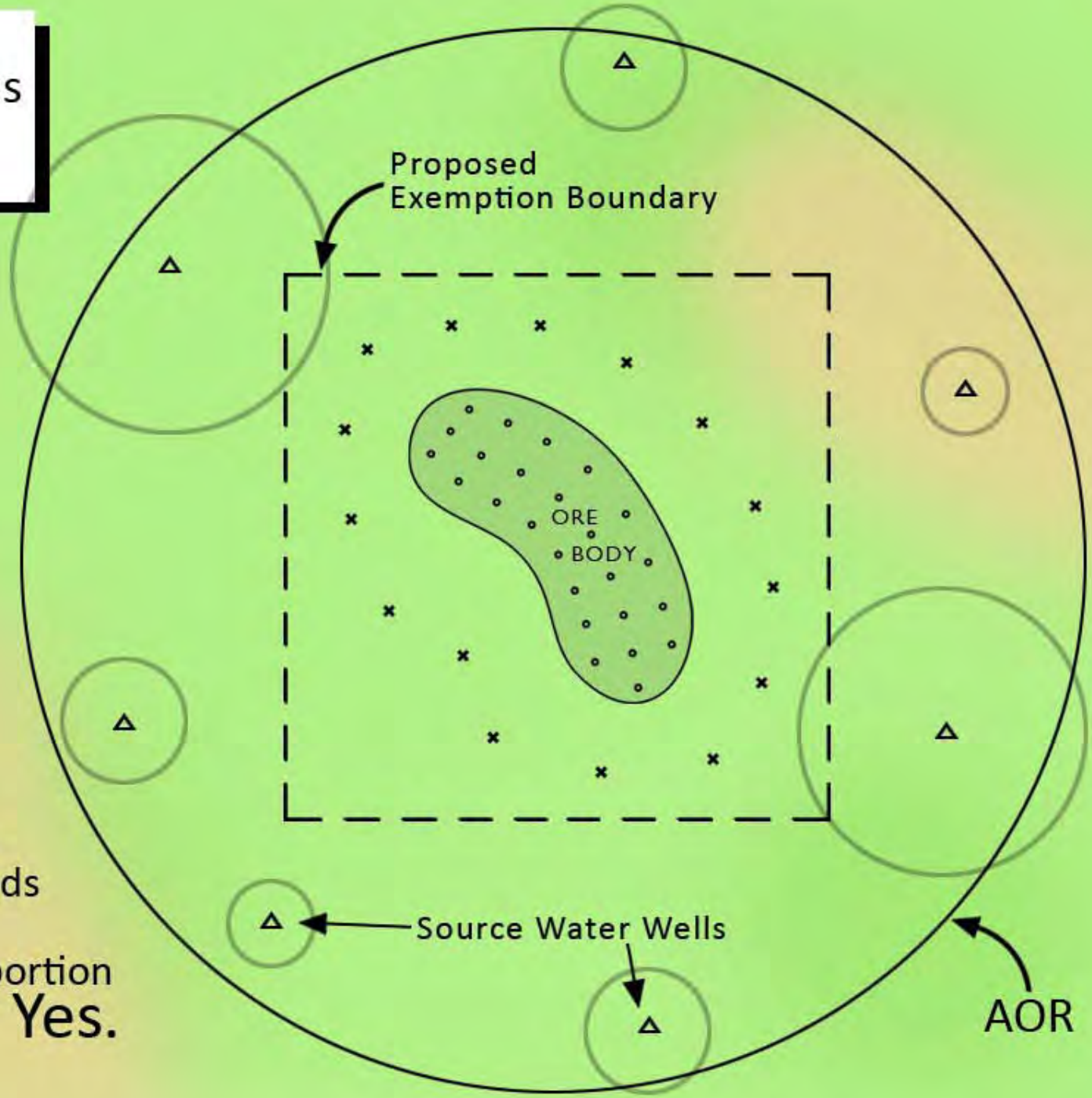


Time = production + restoration periods

Does the aquifer portion serve as a USDW? No.

Source water wells with cones of depression over time

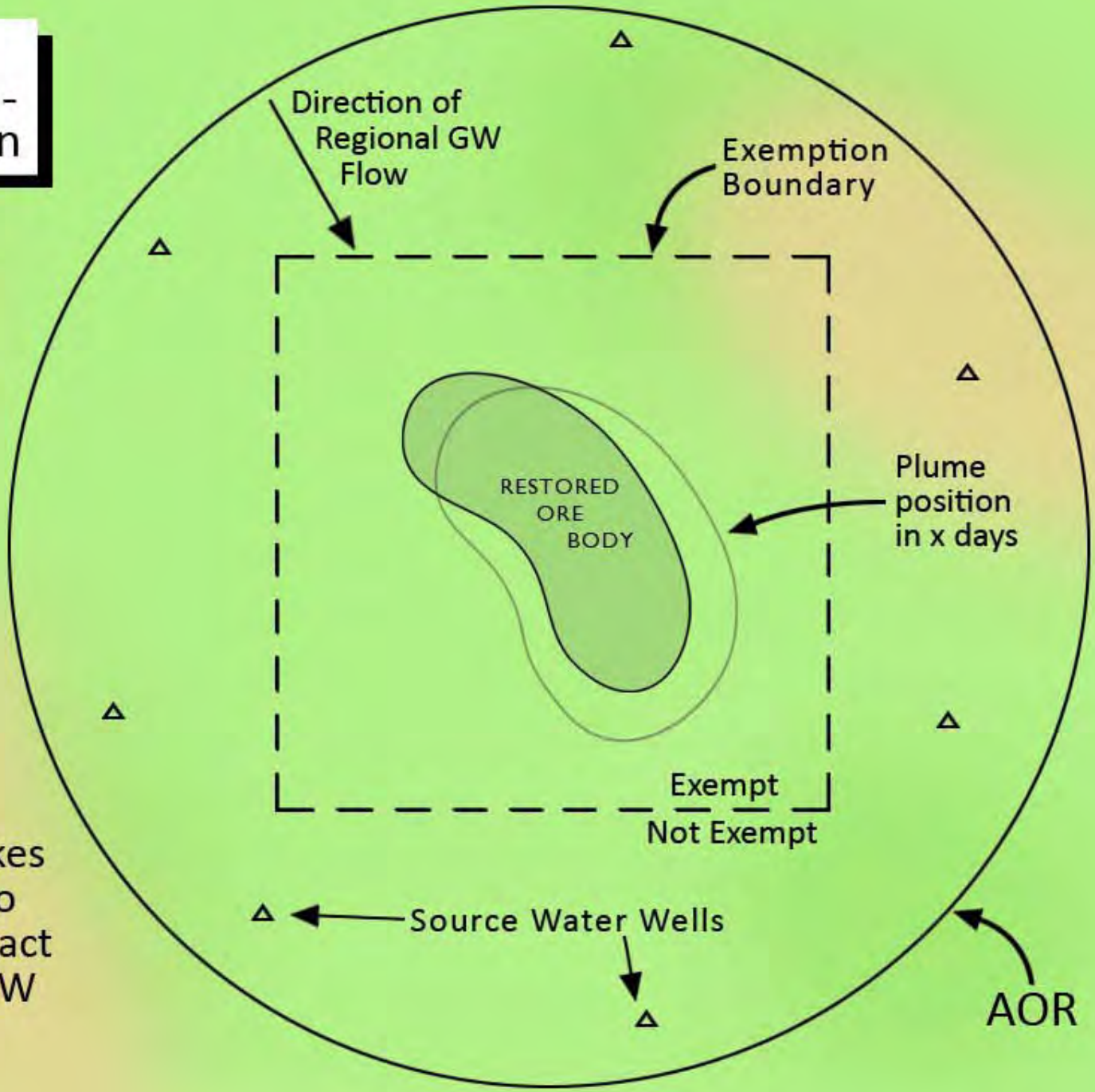
- ∘ Production/ Injection Wells
- × Monitor Wells
- △ Source Water Wells



Time = production + restoration periods

Does the aquifer portion serve as a USDW? Yes.

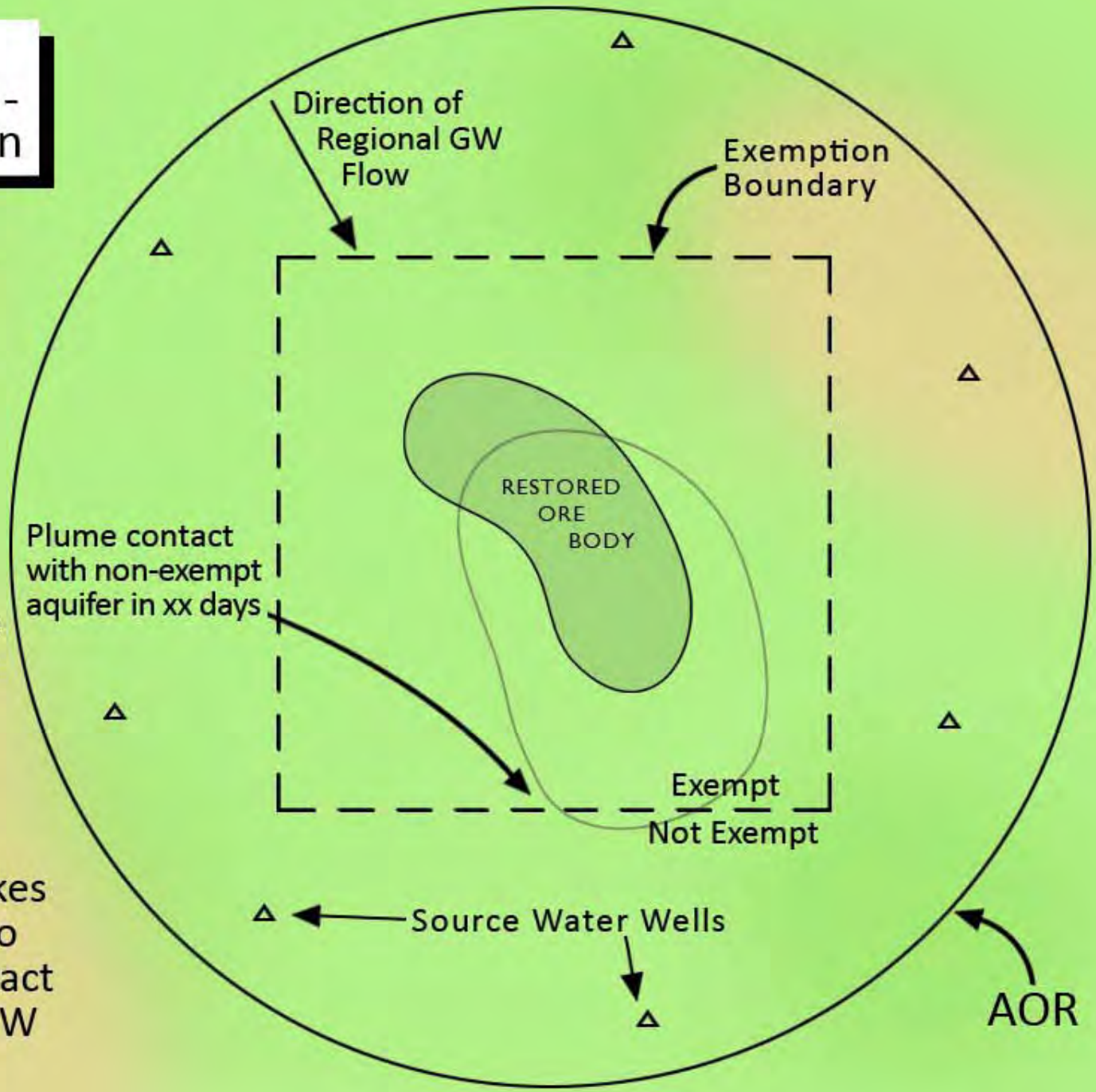
Chem fate demonstration - after restoration



△ Source Water Wells

Time = time it takes restored plume to migrate and contact non-exempt USDW

Chem fate demonstration - after restoration



△ Source Water Wells

Does Chemfate model indicate a vuilation of 144.12?

Time = time it takes restored plume to migrate and contact non-exempt USDW