Starlivia Kaska

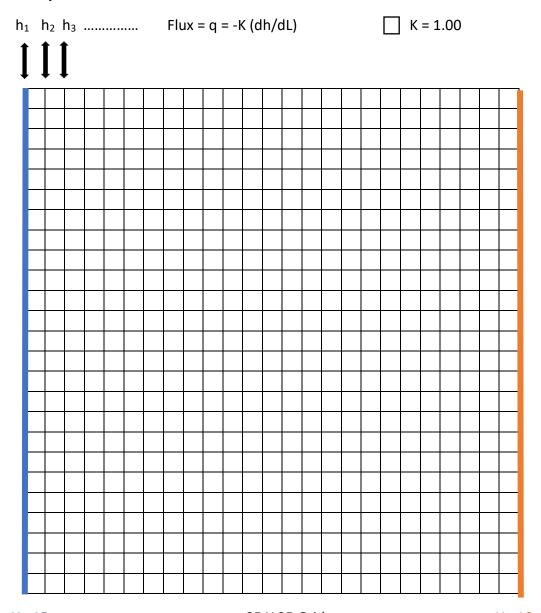
HWRS 482

Dr. Laura Condon

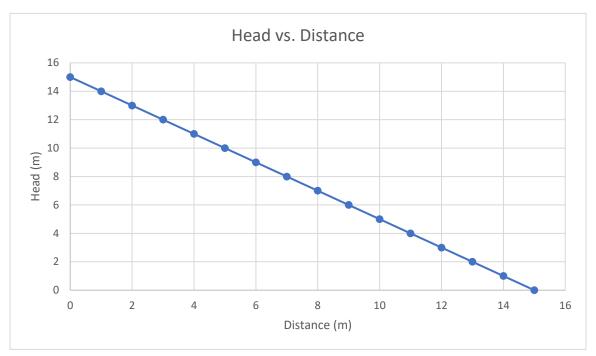
February 1, 2022

HW2 Figures

1. Conceptual Model



H= 15 m 25 X 25 Grid H= 10 m



Graph 1. A cross section of the predicted head gradient for the homogeneous model. At distance 0m the head is at 15 m and at distance 5m it is at 10 m. The flow direction goes from high head to low head.

2. Flux with horizontal distance and model is steady state.

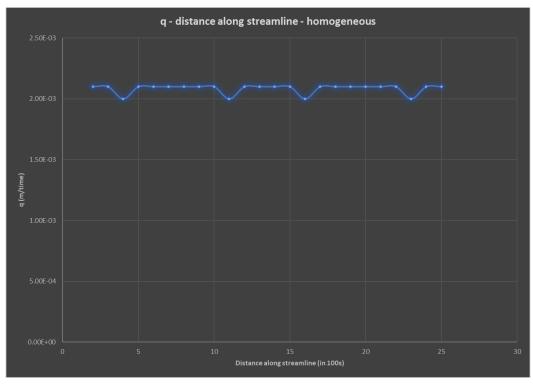


Figure 1. This figure shows the flux of a homogeneous case without the harmonic average.

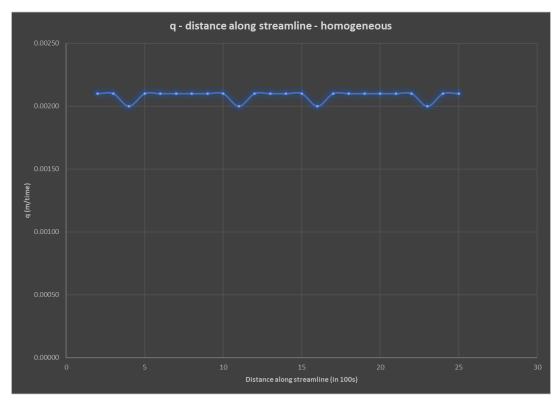


Figure 2. The flux for a homogeneous case, accounting for spatial differences in the hydraulic conductivity and taking the harmonic average

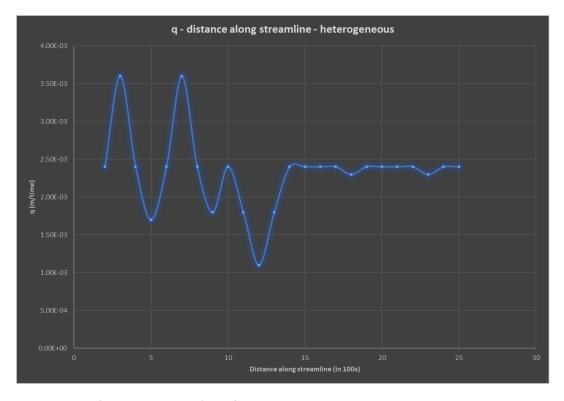


Figure 3. This figure shows the flux of a heterogeneous case without the harmonic average.

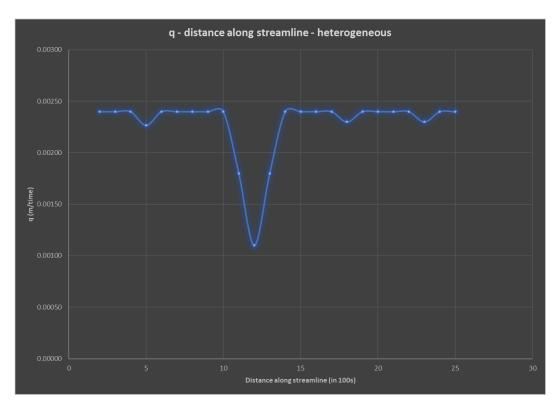


Figure 4. The flux for a heterogeneous case, accounting for spatial differences in the hydraulic conductivity and taking the harmonic average

3. Steady state head contours in plan view.

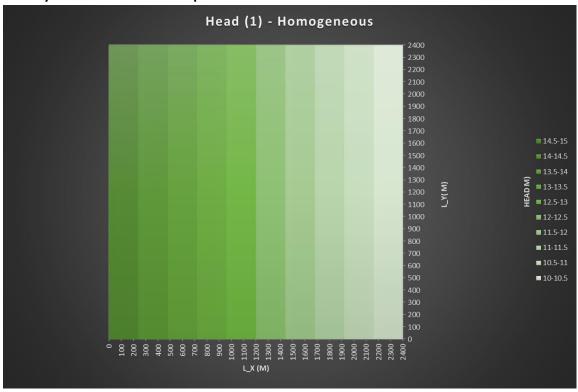


Figure 5. Homogeneous case with K values of 1.00 in each cell of the grid.

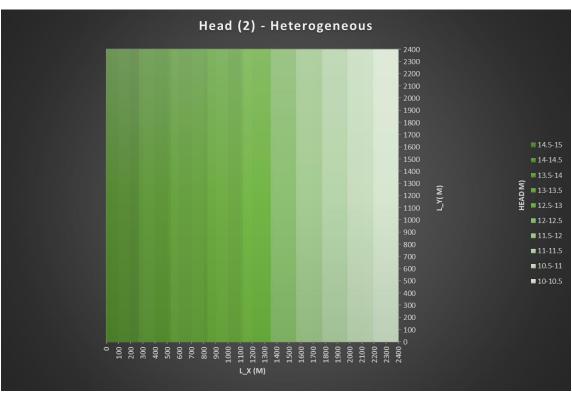


Figure 6. Heterogeneous case with K values of 1.00 and 2.00 in series (only a few of the columns in the grid were changed to 2.00).

4. Square region of lower K in the middle of the domain.

