Table

Description automatically generated

Figure 1. Equipotential and flow lines for confined simulation (left BC=15 and right BC=10)

Table

Description automatically generated

Figure 2. Equipotential and flow lines for unconfined simulation(left BC=10 and right BC=5)

Chart, histogram

Description automatically generated

Figure 3. Head difference for confined aquifer (left BC=15 and right BC=10)

Chart, bar chart, histogram

Description automatically generated

Figure 4. Head difference for unconfined aquifer (left BC=10 and right BC=5)

Report the total flux across the left and right boundaries for confined and unconfined simulations

* + Confined q = 52
  + Unconfined q = 39

Graphical user interface

Description automatically generated with low confidence

Figure 5. Flux values for the left and right boundaries for Confined Aquifer (left BC=15 and right BC=10)

Chart

Description automatically generated with low confidence

Figure 6. Flux values for the left and right boundaries for Unconfined Aquifer (left BC=10 and right BC=5)

Table

Description automatically generated

Figure 7. Equipotential lines for the recharge case (whole domain)

Chart

Description automatically generated

Figure 8. Equipotential lines for the recharge case (with farm)

Graphical user interface

Description automatically generated

Figure 9. Flux values for the left and right boundaries (whole domain)

Chart, line chart

Description automatically generated

Figure 10. Flux values for the left and right boundaries (with farm)

Report the total excess irrigation applied per year in m

* + - 1E-4 m/d \* 365d = 0.365 m/yr
    - Area = (400 \* 400) = 160,000m2
    - 0.365 m/yr \* 160,000 = 58,400m3/yr
    - Unsure of which area to use, if using 400x10 then the excess irrigation is 1,460m3/yr

Report the total calculated irrigation per year and your assumed efficiency rate

* + - 16 m3/d \* 365 days= 5840 m3/yr
    - I am not sure what my efficiency rate is. I know that an additional 16m3/day of water was released from our system. This I assume was from the recharge occuring, but I don’t see where the cotton would be pulling any of the water out.

Chart

Description automatically generated

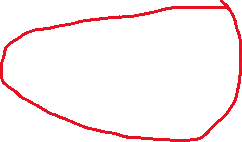


Figure 11. Flux values and equipotential lines Annotated with the potential contamination zone (red)

Chart

Description automatically generated



Figure 12. Annotated flux plot showing contamination (red) and capture zones in different colors (green)