



# Second Newsletter

## Glenn County Groundwater Reliability and Recharge Pilot Program

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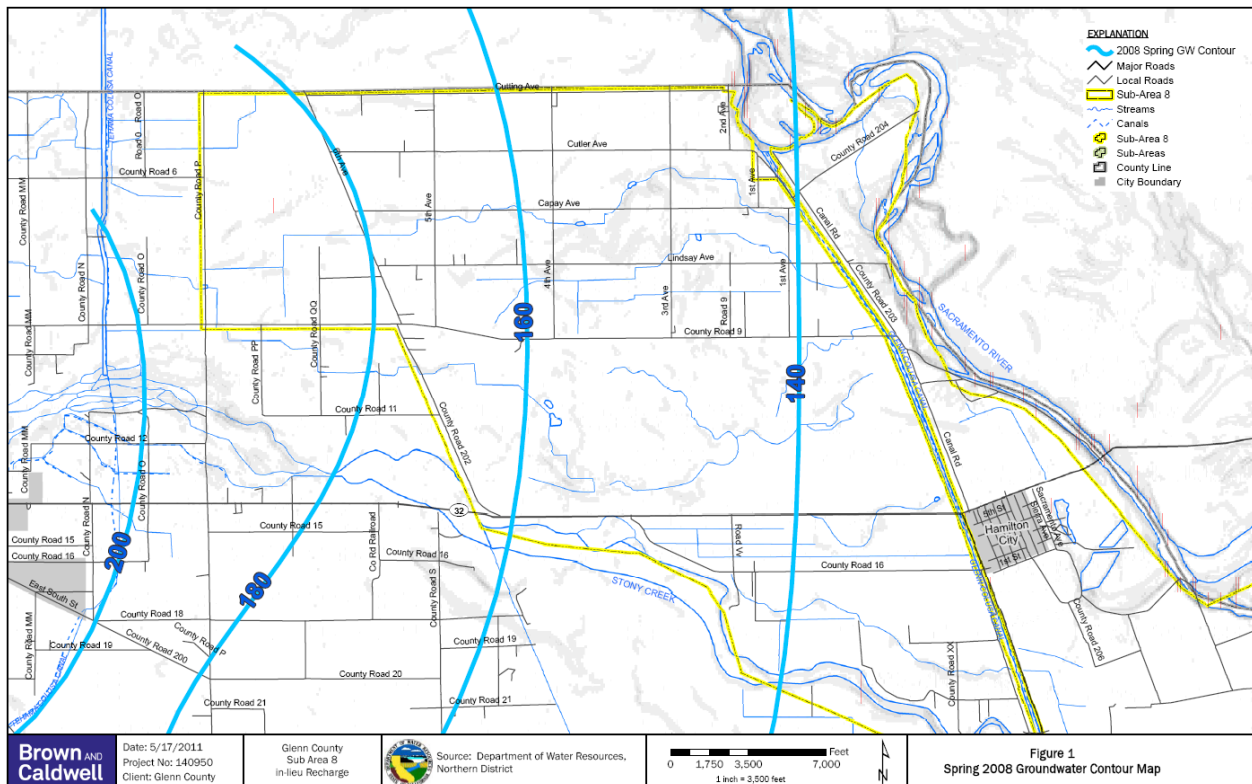
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## Project Summary

The Glenn County Department of Agriculture on behalf of the Glenn County Water Advisory Committee is investigating the feasibility of utilizing surface water in lieu of groundwater pumping to provide increased water supply flexibility and investigate the benefits of in-lieu recharge in the East Corning Basin, a groundwater dependent area in the northeastern corner of Glenn County.

## Groundwater Level Contours

Groundwater contour maps are used to improve understanding of groundwater trends. Contour maps are developed by hydrogeologists based on groundwater monitoring. Shown below is a groundwater contour map for the study area. The contours on this map represent groundwater in spring of 2008. Groundwater is higher in the west, and lower towards the east, which indicates a easterly flow of groundwater across the study area.



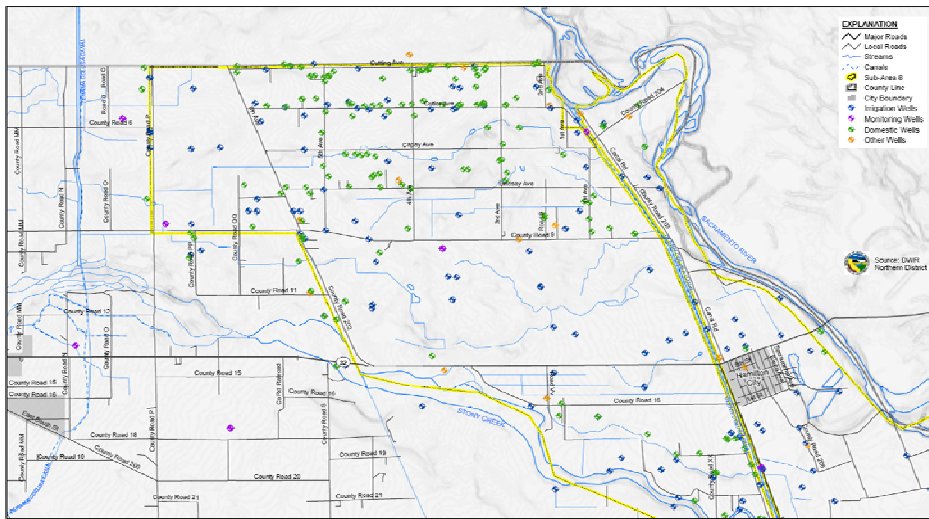
Additional information is available at the project website at [www.glennwac-eastcorning-recharge.org](http://www.glennwac-eastcorning-recharge.org)



**Glenn County Groundwater Reliability and Recharge Pilot Program**

# Groundwater Well Infrastructure

When a groundwater well is drilled, the driller is required to submit a log to the Department of Water Resources (DWR). The DWR keeps the submitted logs in a database. DWR estimates that 90% of wells that are drilled have a submitted log, and that roughly 10% of wells drilled do not have submitted logs. This study utilized the DWR well log database to improve understanding of well infrastructure in the study area. The map below presents wells with submitted logs within the study area. Wells within the study area were further analyzed by well type and depth.



Map showing wells by type

The graph below illustrates well depth range and cumulative frequency depth distribution for domestic wells in the study area. The left (vertical) axis, cumulative frequency, shows the percent of all wells that are shallower than the line. The bottom axis shows well depth. For example, this graph shows that approximately 50% of domestic wells in the study area are shallower than 100 feet deep. The steep curve of the cumulative frequency line on this figure indicates that adequate water is available for domestic uses at fairly shallow depths. There are 182 domestic wells in the study area, of which 180 (99%) of the wells are shallower than 230 feet.

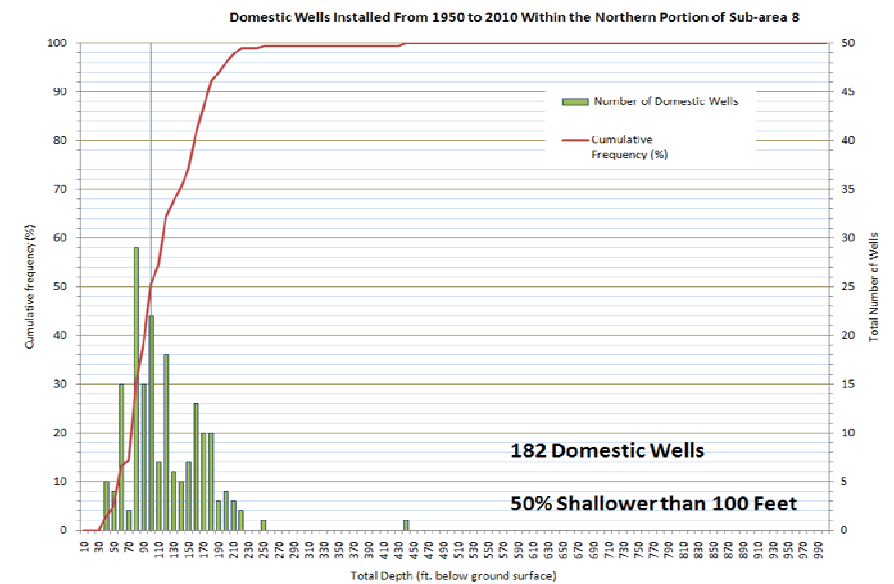
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Additional Information available at:  
[www.glenncountywater.org](http://www.glenncountywater.org) and  
[www.glennwac-eastcornering-recharge.org](http://www.glennwac-eastcornering-recharge.org)



Domestic Well Cumulative Frequency Curve