Parker Road Monitoring Program

September 24th, 2015

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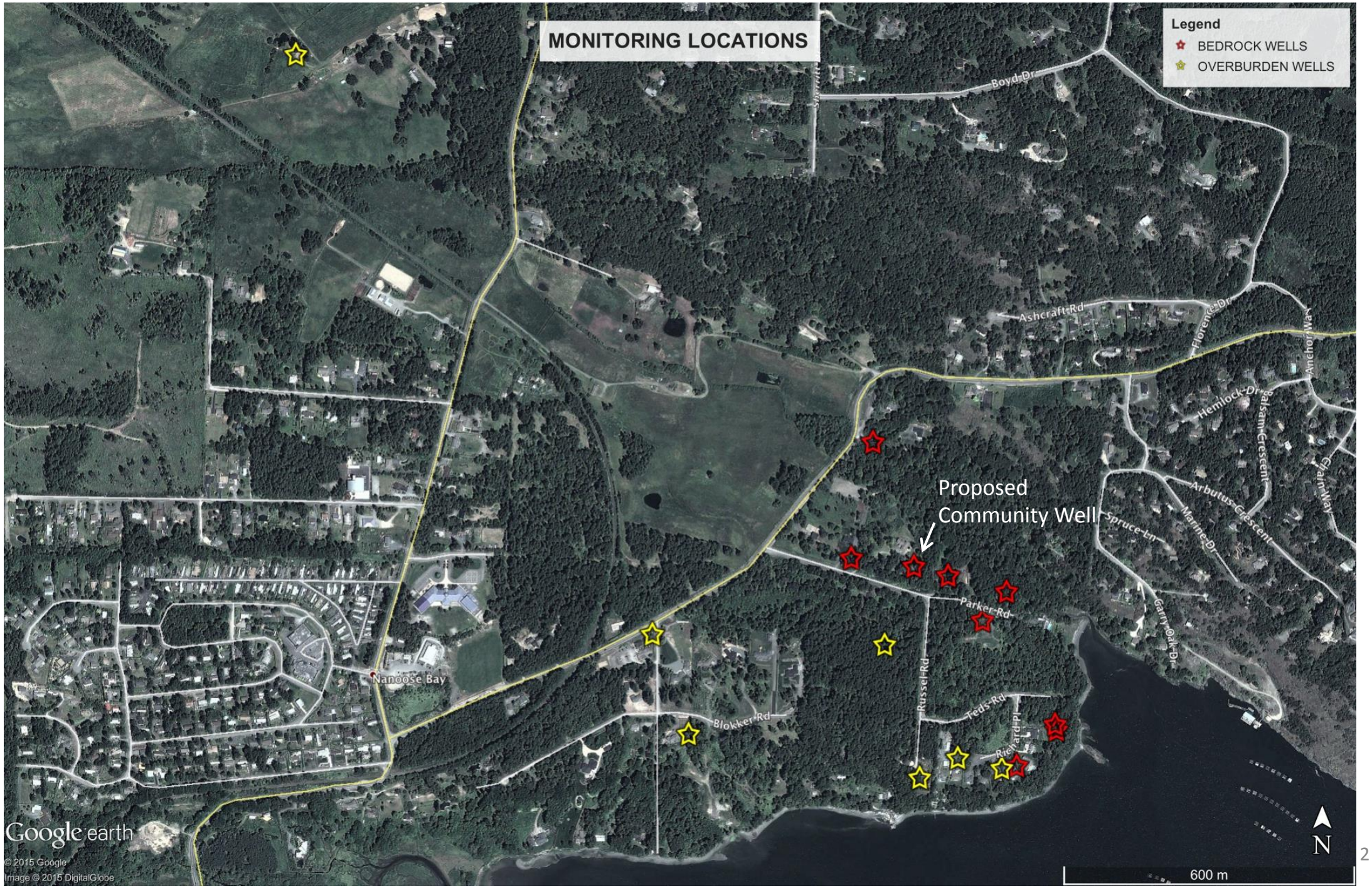
RDN & GW Solutions


MONITORING LOCATIONS
Legend
BEDROCK WELLS
OVERBURDEN WELLS
Proposed
Community Well
Boyd Dr
Ashcraft Rd
Florence Dr
Anchor Way
Hemlock Dr
Balsam Crescent
Arbutus Crescent
Spruce Ln
Marine Dr
Garry Oak Dr
Parker Rd
Russel Rd
Feds Rd
Blokker Rd
Nanoose Bay
Google earth
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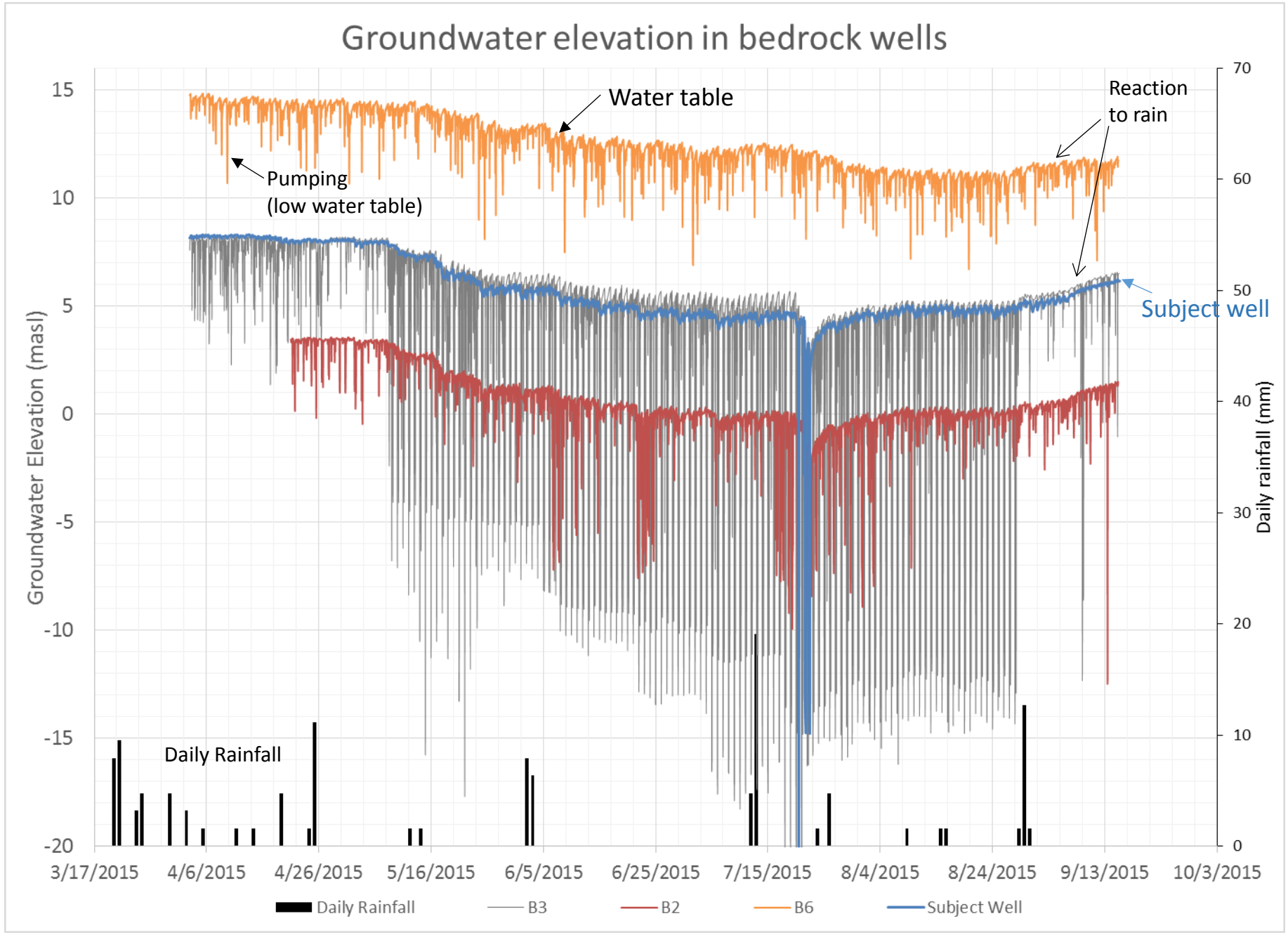
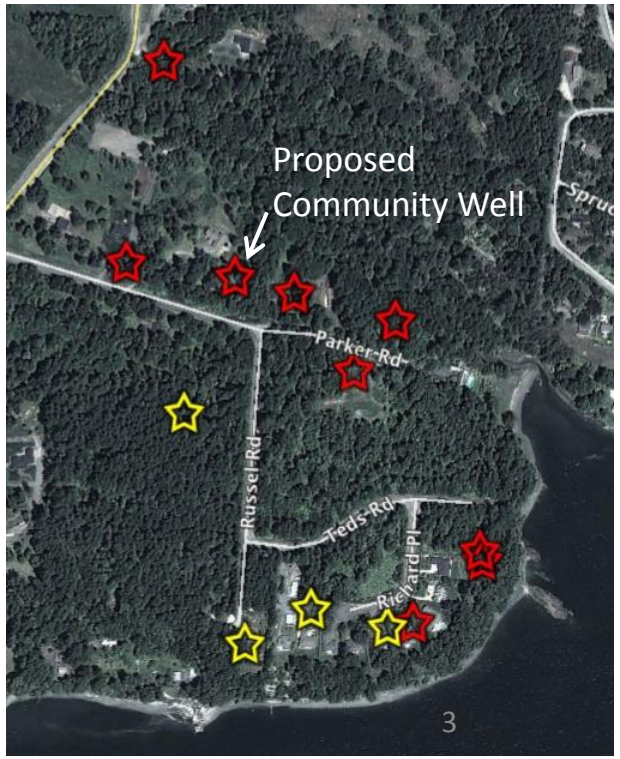
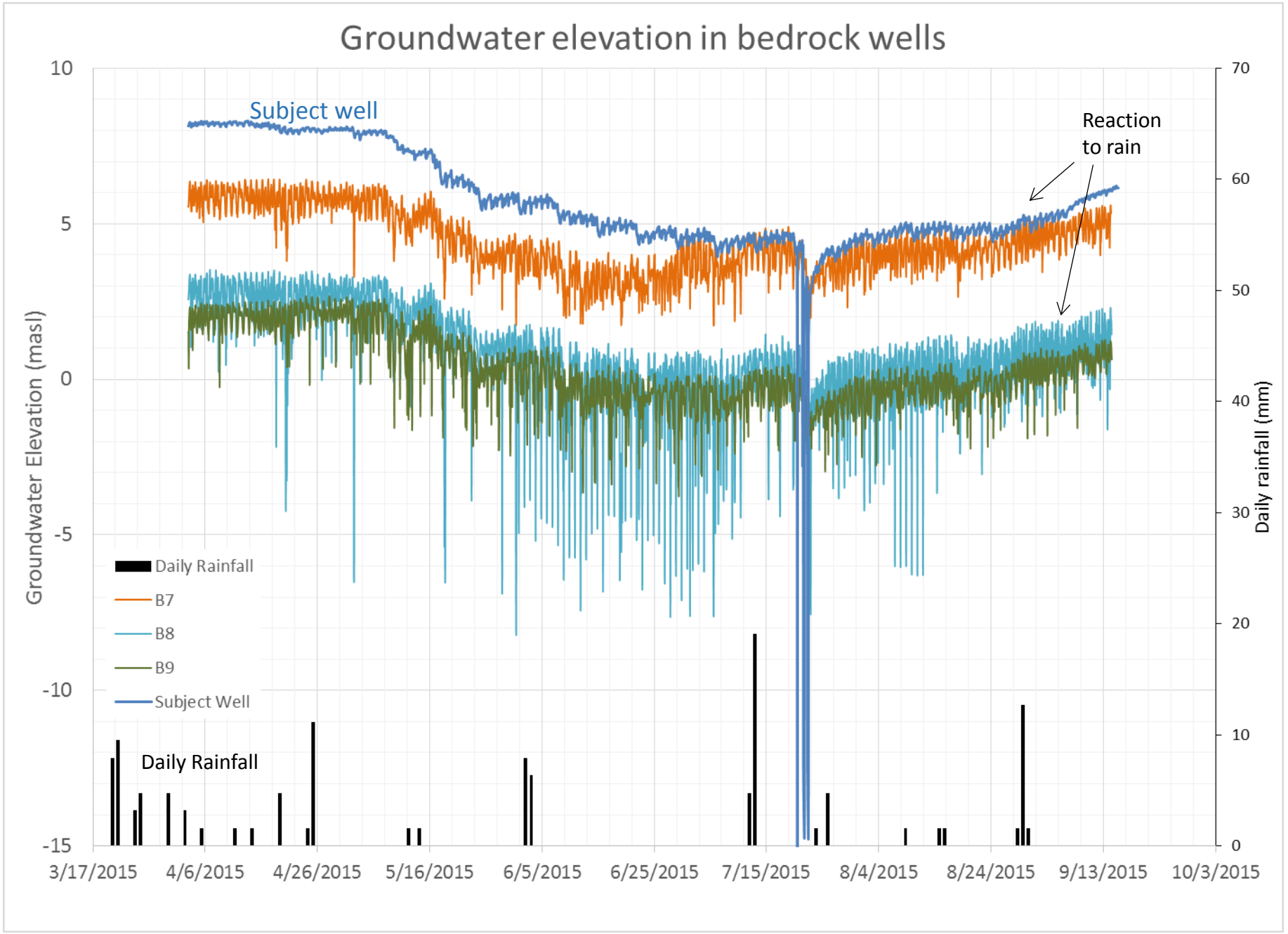
N
600 m



- Water level is decreasing from May to mid-July due to dry conditions
- WL slowly recovers with wetter period in August and less pumping
- Fluctuation of WL on a daily basis due to pumping and/or well interference
- Subject well has been pumped for testing on July 20, 21, 22





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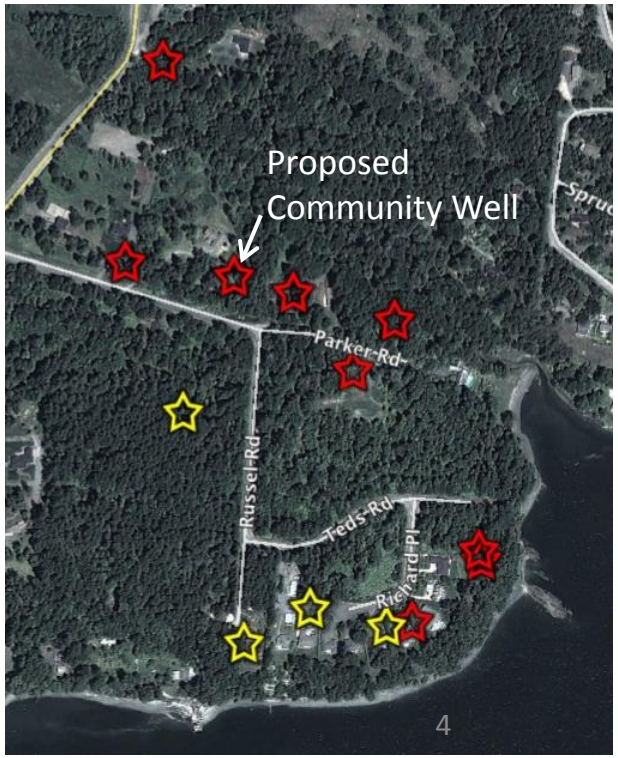

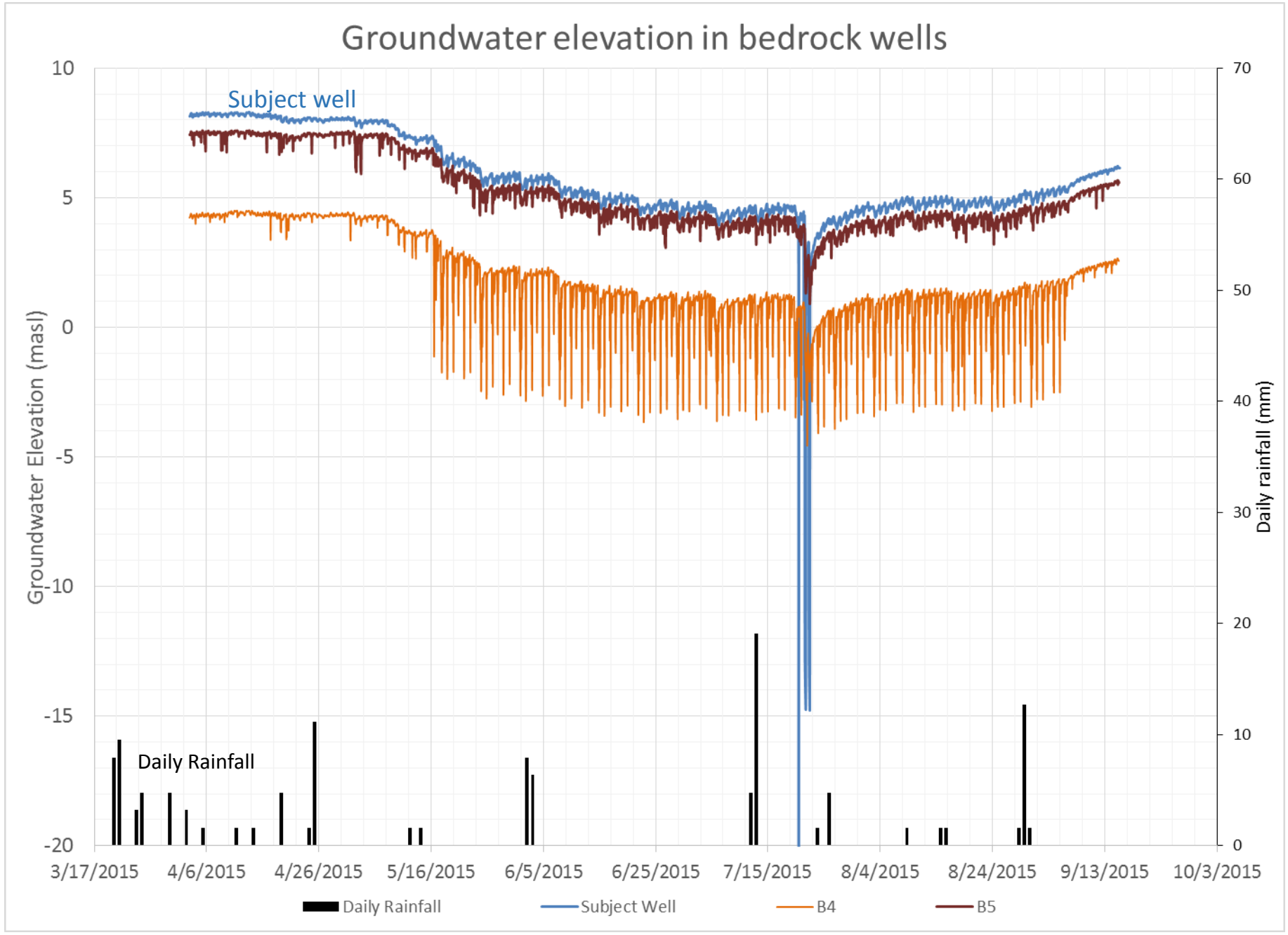

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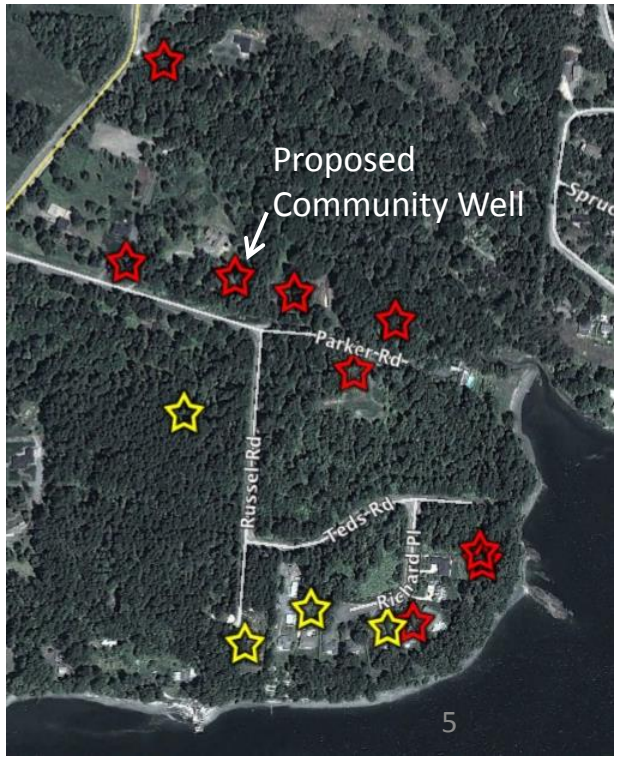
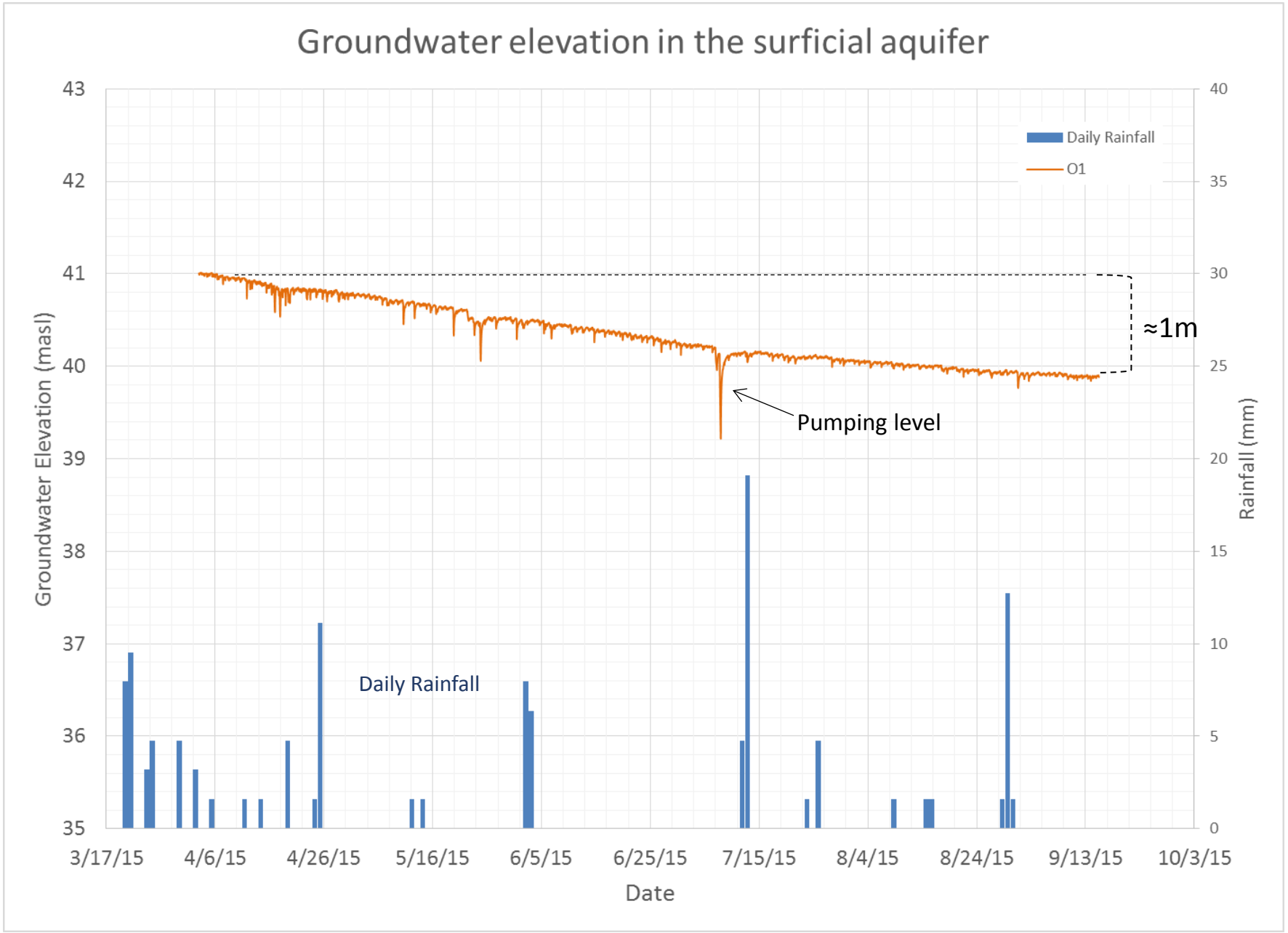
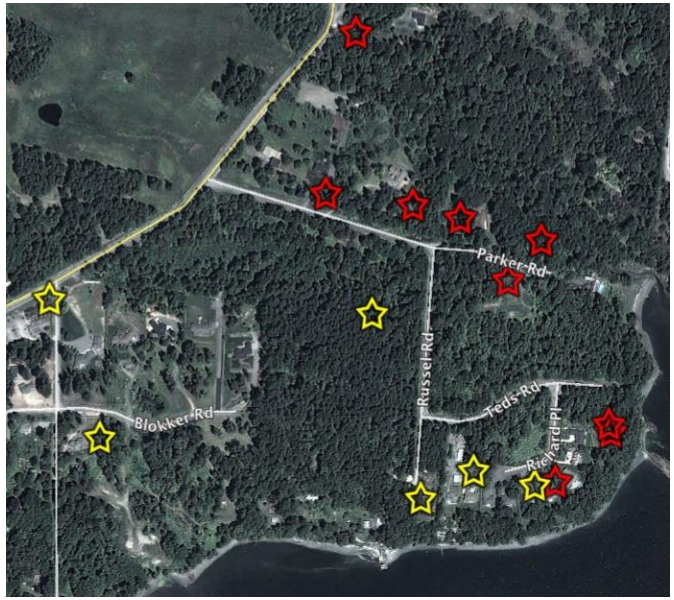
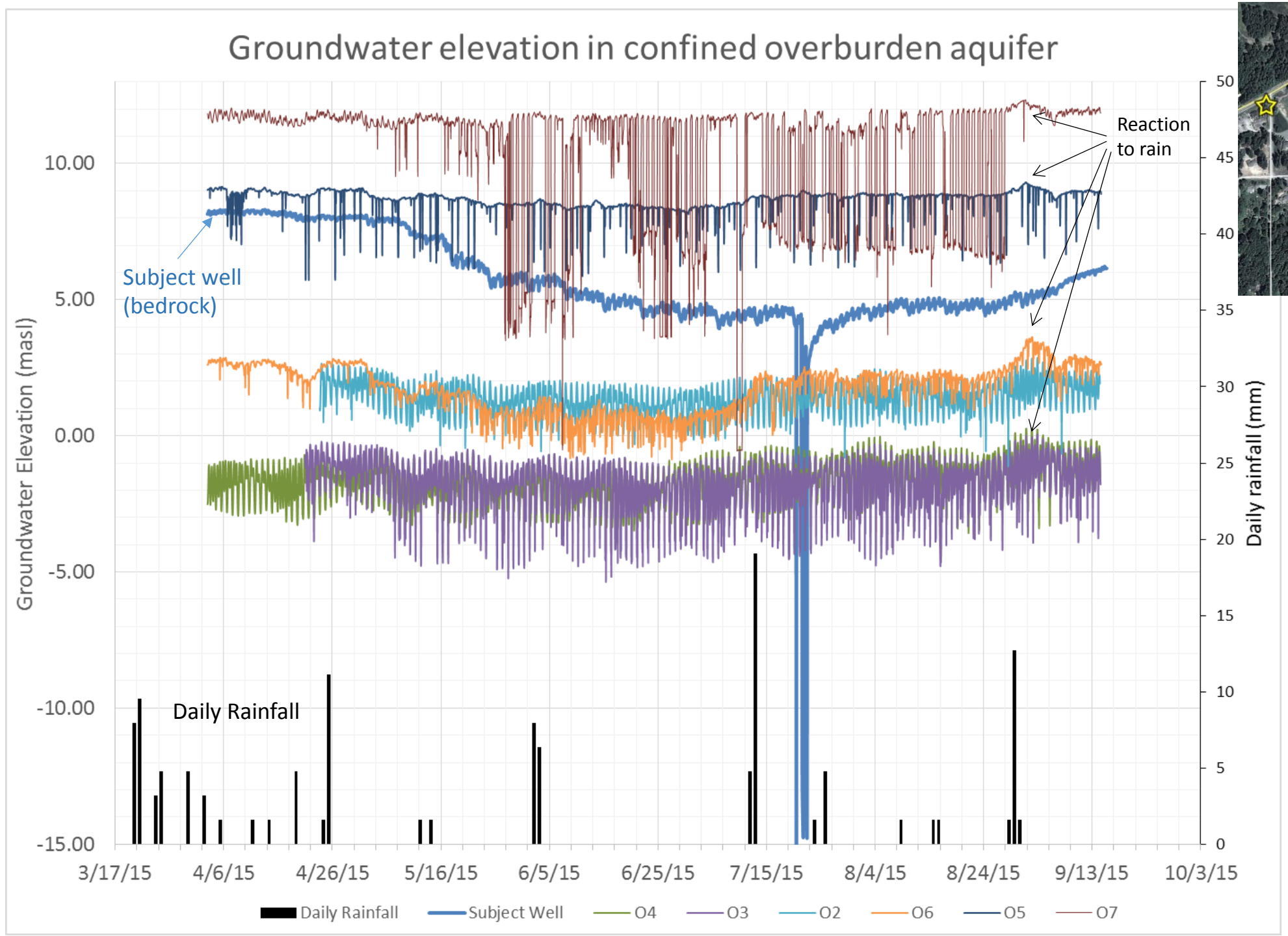


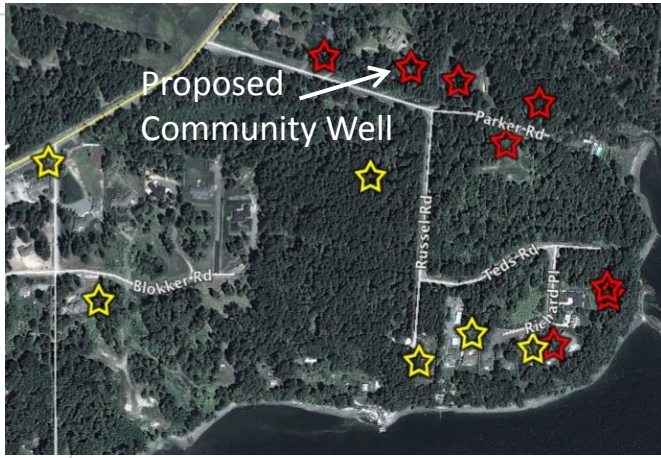


- Approx. 1m decrease in 5 months due to drought
- No identified short term recharge due to rainfall



Groundwater elevation in confined overburden aquifer

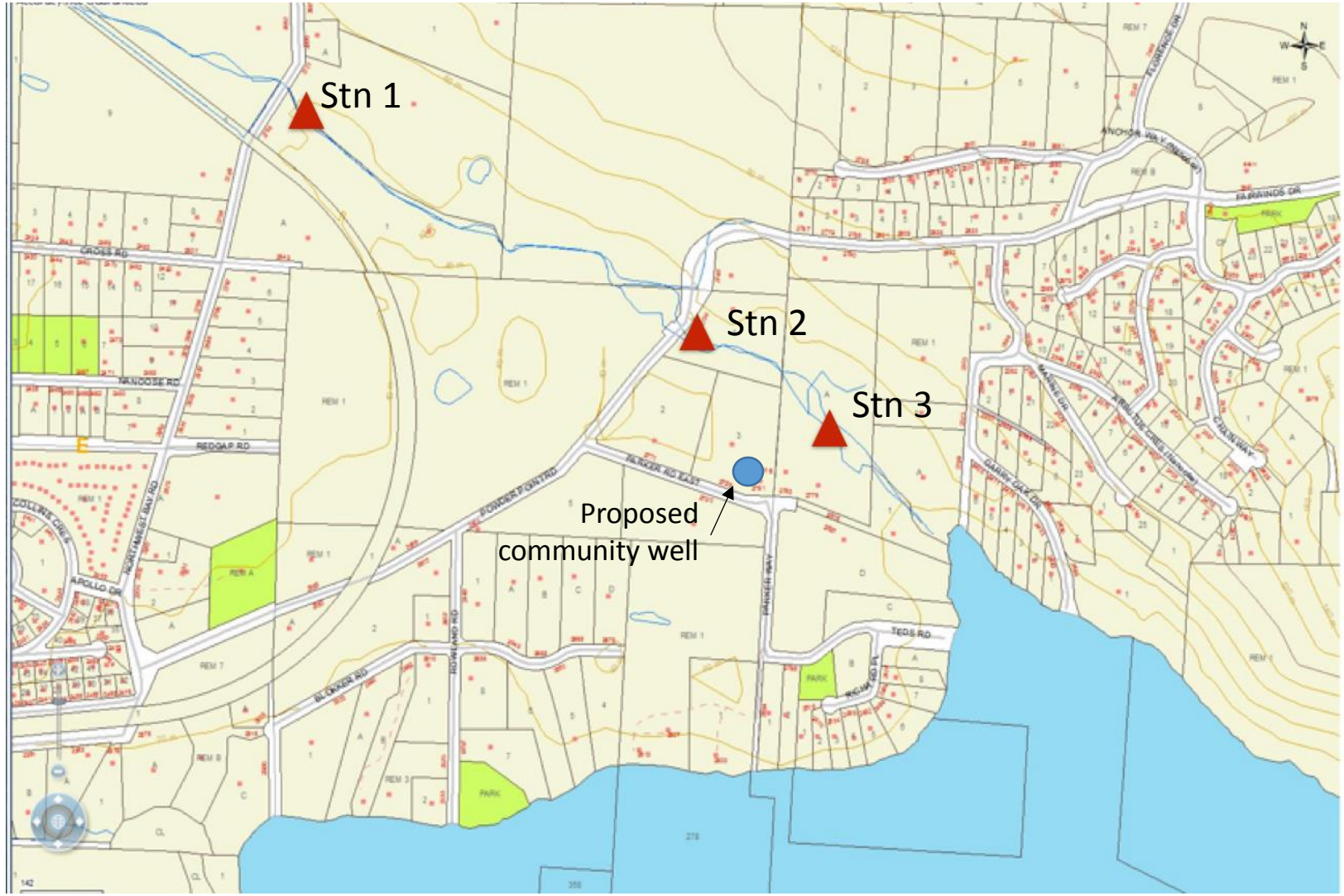




- No effect of the pumping at the subject well on other wells in confined overburden aquifer
- Slight decrease due to absence of rain from May to July – between 0.5 and 2 m drop in WL.
  From mid-July, WL recovers thanks to rain

  Bedrock – 3.5m decrease during dry period – reacts more than overburden to dry weather

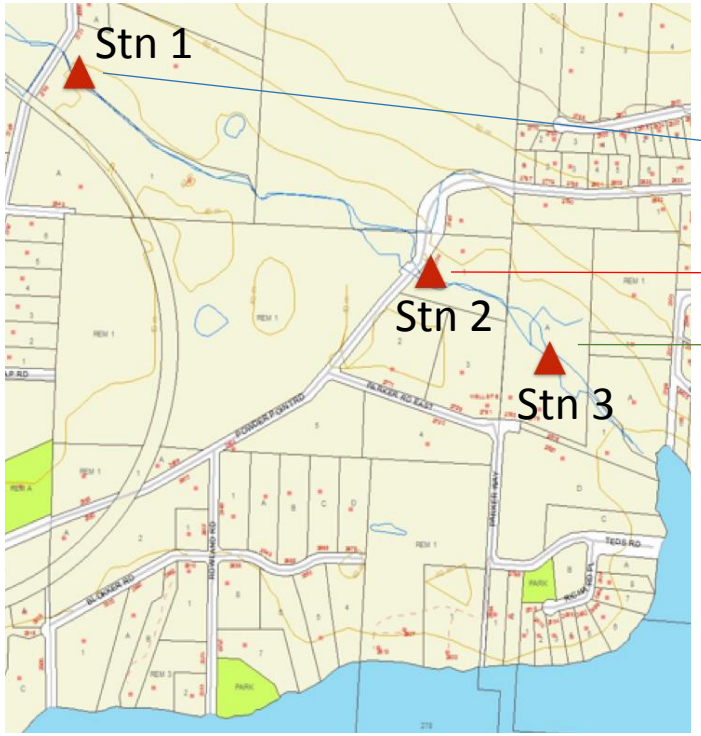
Maelstrom Creek Monitoring

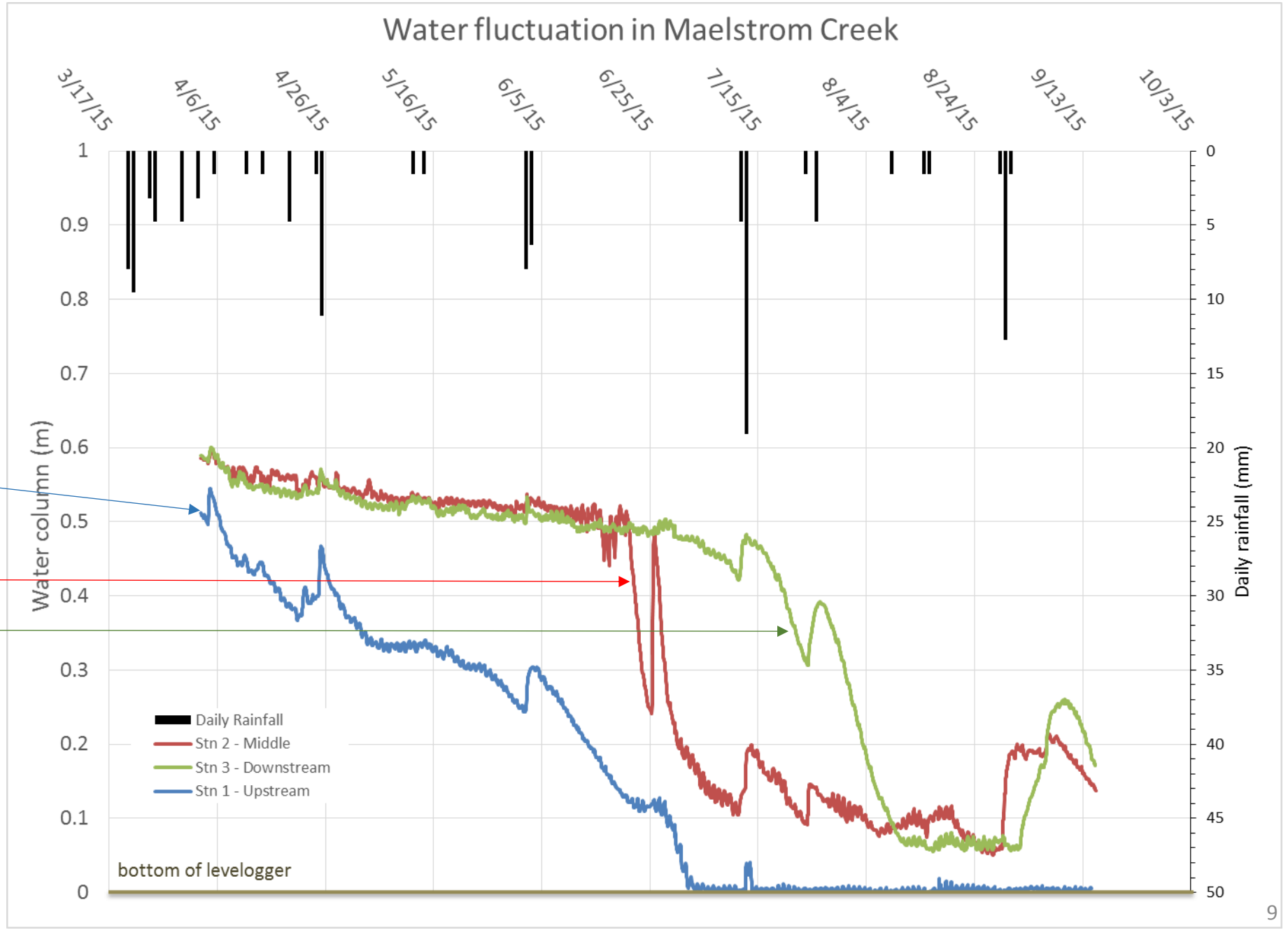


To evaluate connection with aquifers - river base flow is a criteria for sustainable operation of a well

Maelstrom Creek Monitoring

- Reaction to rainfall events (rise in WL)
- WL decreases with absence of rain
- No obvious connection with groundwater at this stage





Thank you