Scatter Creek Aquifer Area Septic System Management Project

Art Starry, Environmental Health Director Heather Saunders, Sue Davis, Jane Mountjoy-Venning: PHSS staff Nadine Romero, Hydrogeologist

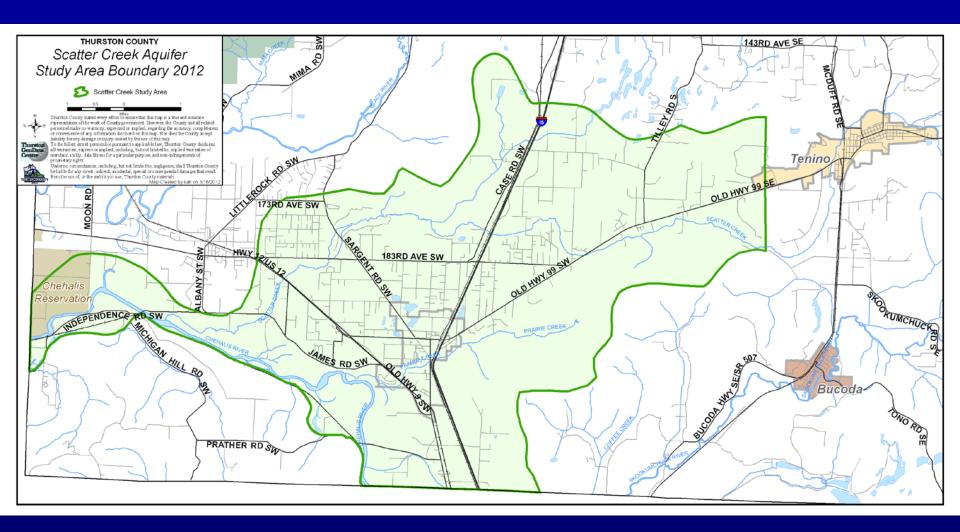


Scatter Creek Citizen's Committee

- ❖ Sandra Adix
- Tom Budsberg
- Dave Dafoe
- Karen Deal
- Lowell Deguise
- ❖ Marlene Hampton

- Chanele Holbrook-Shaw
- ❖ Roger Max
- Bruce Morgan
- Maureen Pretell
- Gene Weaver







Scatter Creek Aquifer

- Extremely vulnerable groundwater supply
- ❖Sole source of water for more than 1,000 public water systems and single family wells
- Over 18,000 people rely on the water



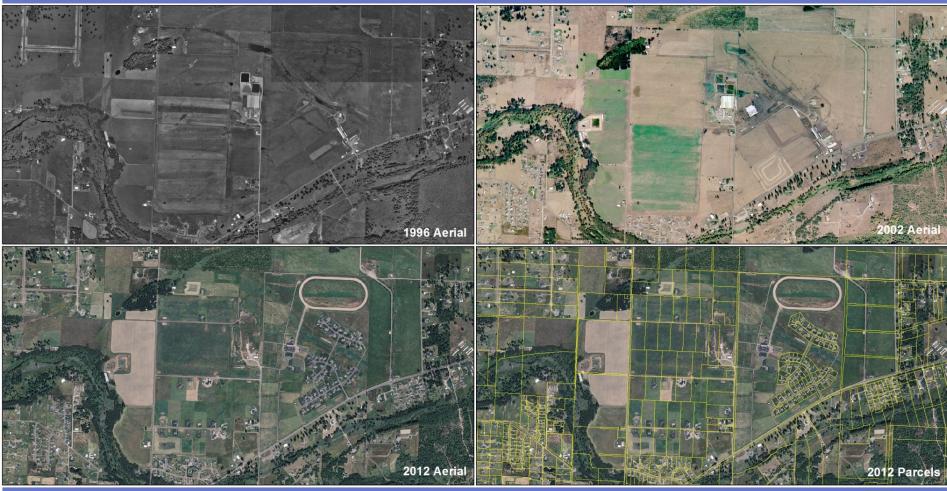
Septic System Management

- Focus of this project is looking at the impacts of septic systems on the aquifer.
- The area is transitioning from agricultural to rural residential



THURSTON COUNTY

Violet Prairie



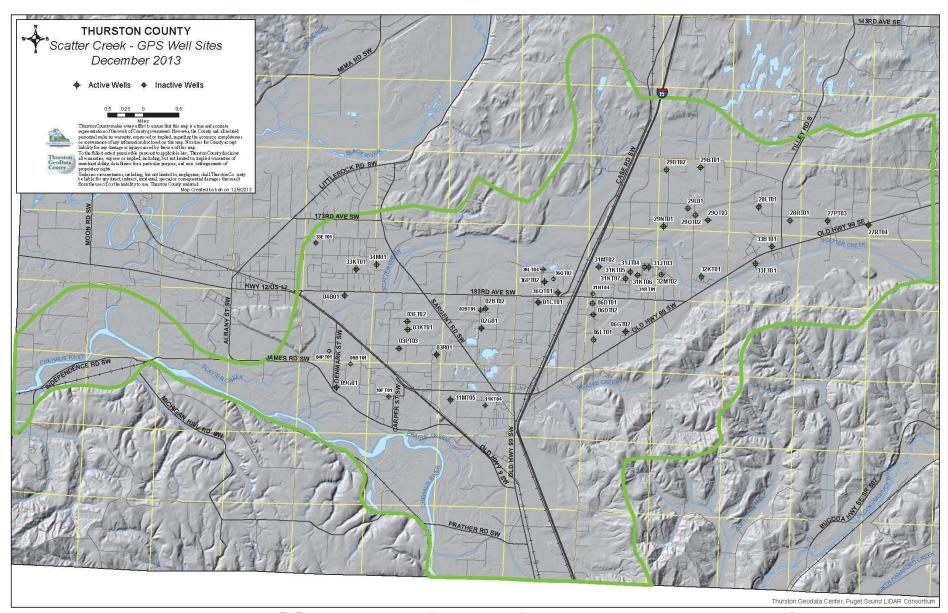
0 600 1,200 2,400 Feet



Comments of the comments of th

- Aquifer has been contaminated by land uses in past
- Seen improvement
- Have opportunity to examine future impacts and take action to protect safe drinking water



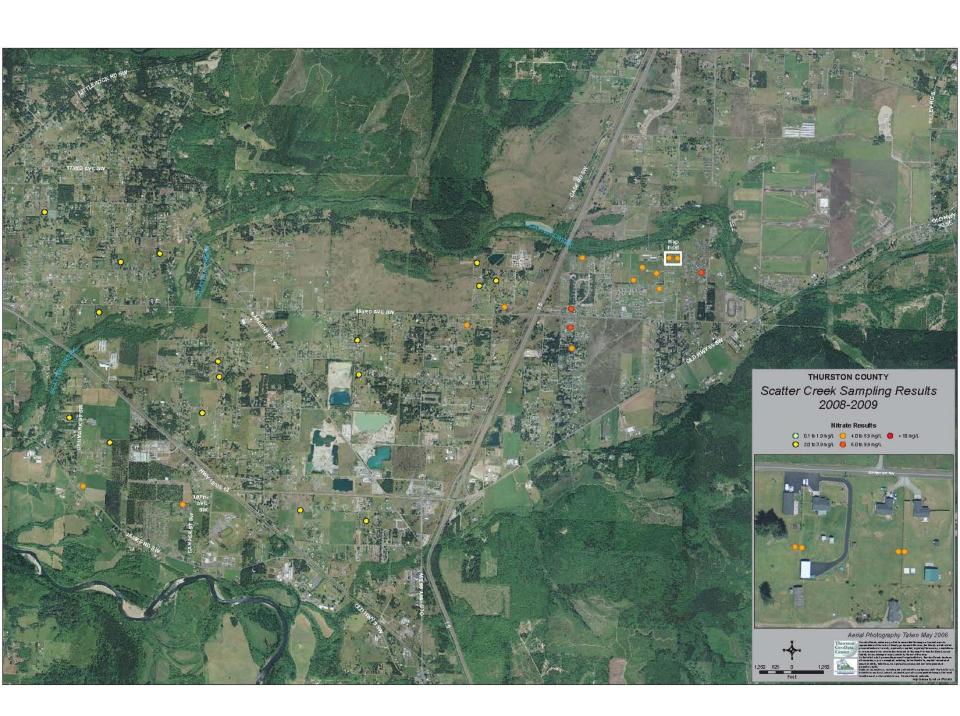


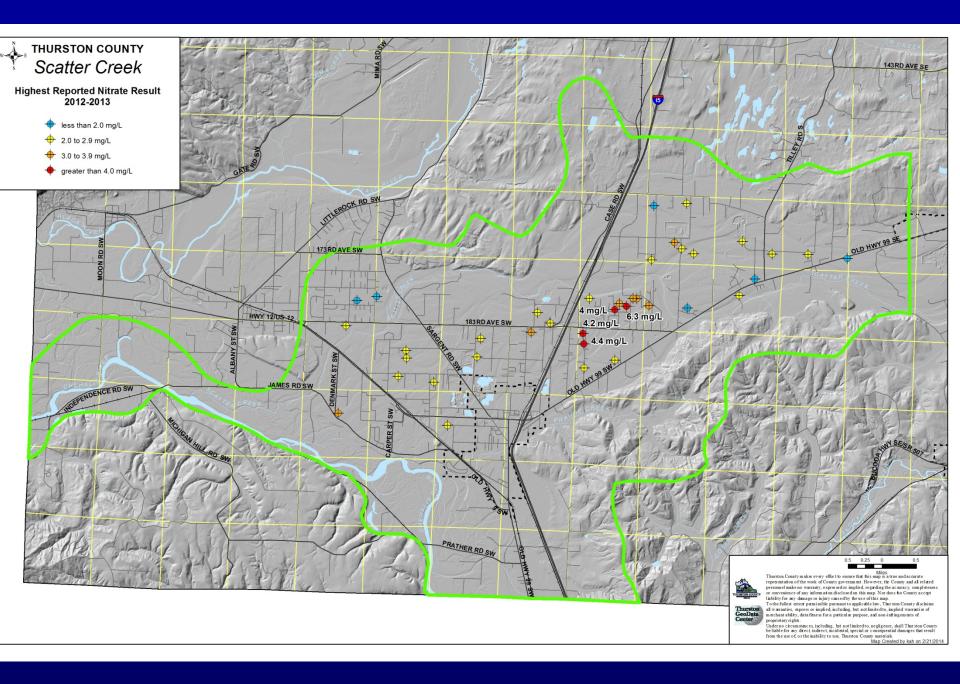
Well Monitoring Network

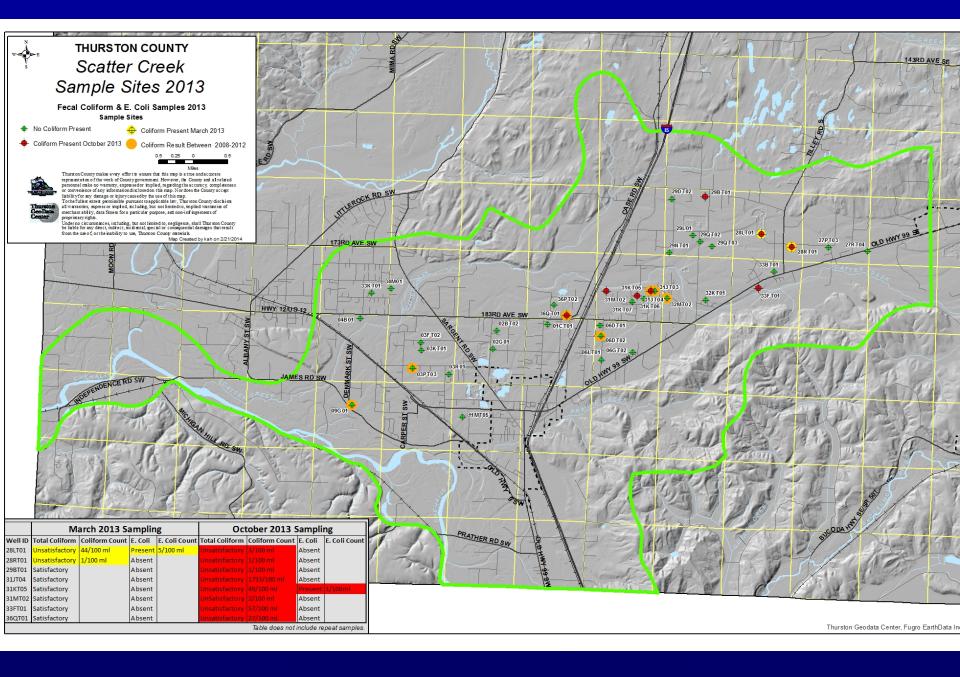
Monitoring Results ... good news and bad news

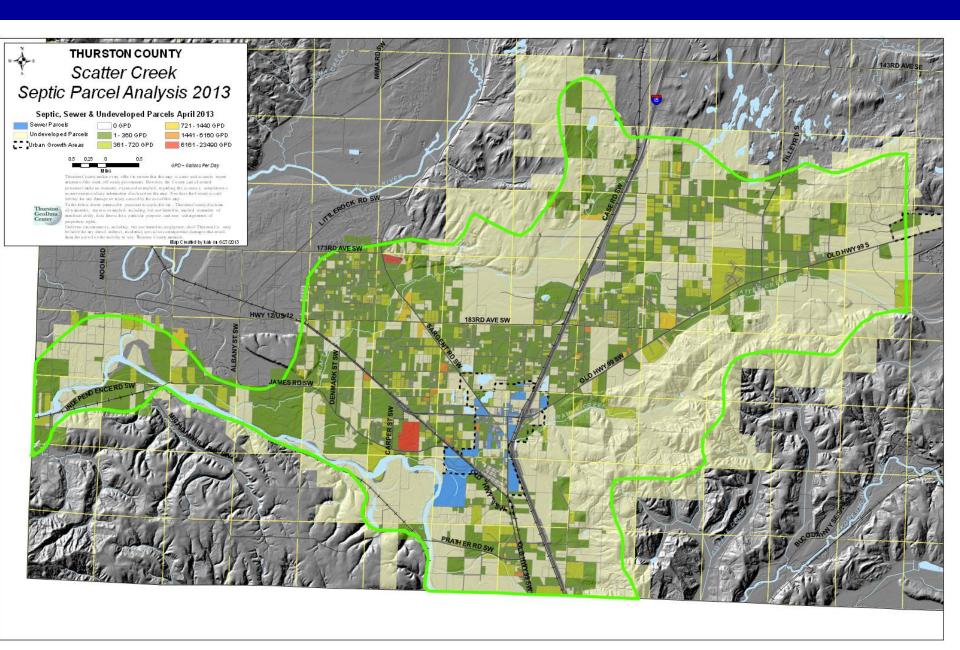
- Since 2008 nitrate levels have dropped throughout the aquifer
- Most recent sampling (Oct 2013) saw increases in nitrates and some unsatisfactory coliform bacteria samples

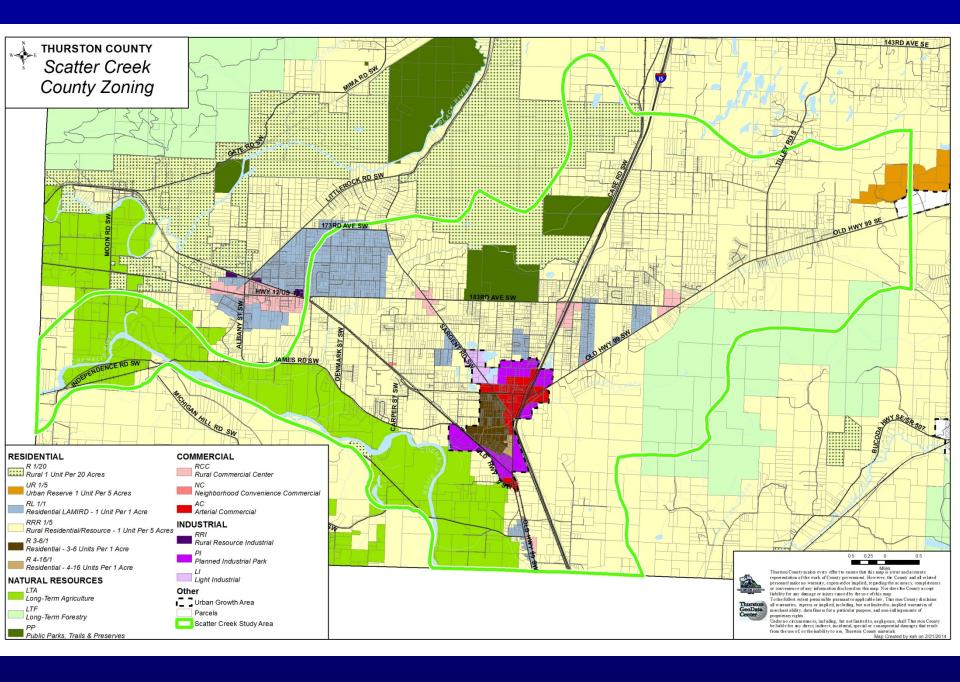


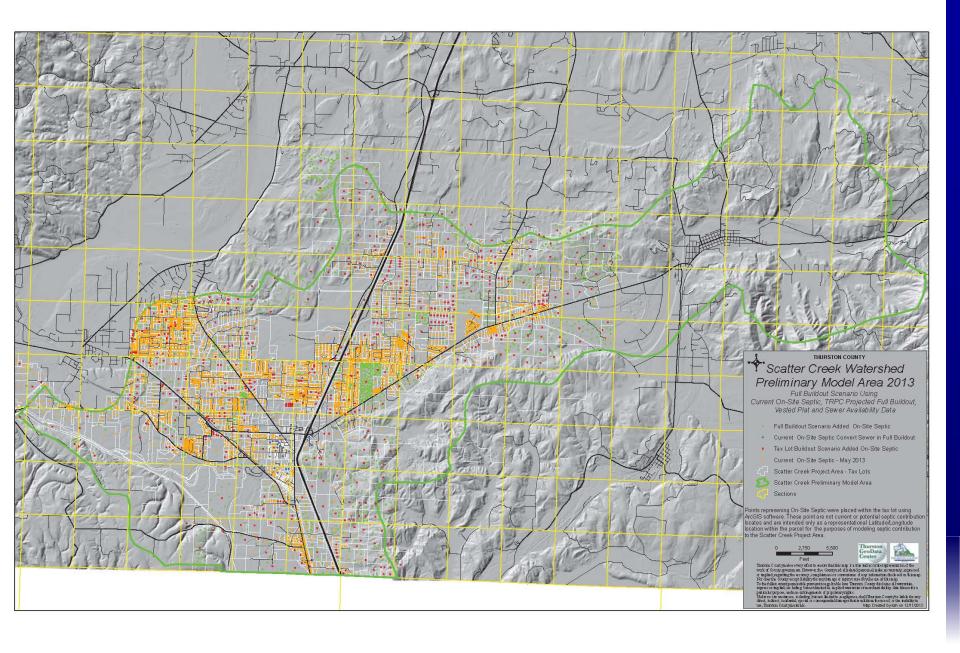


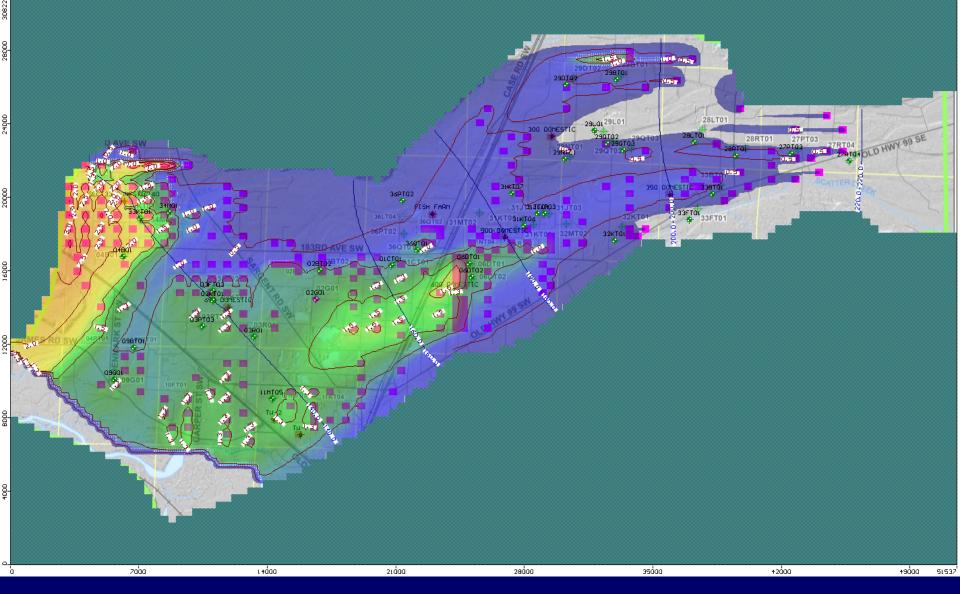






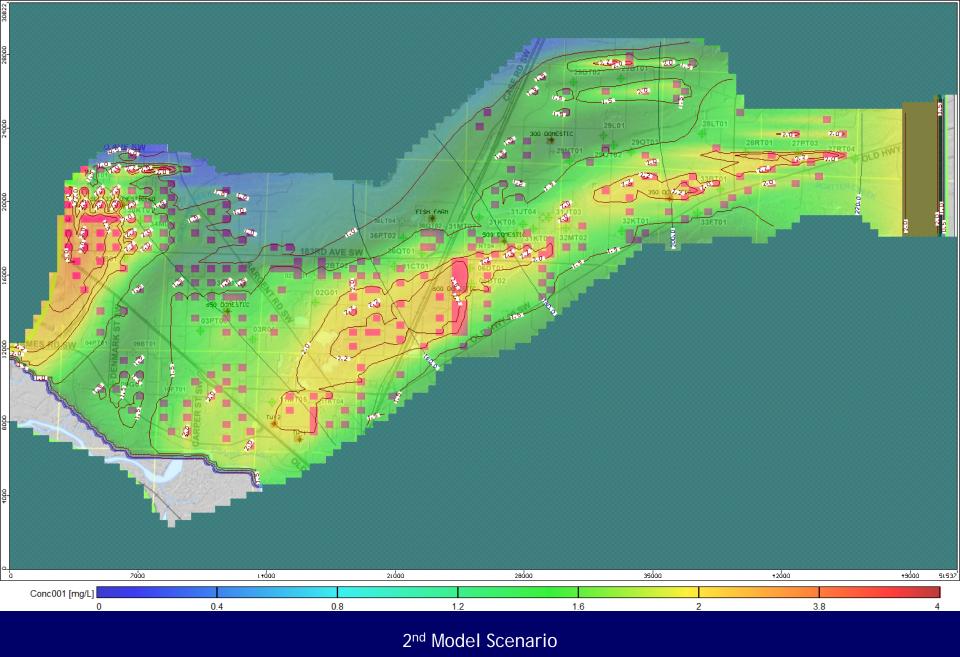




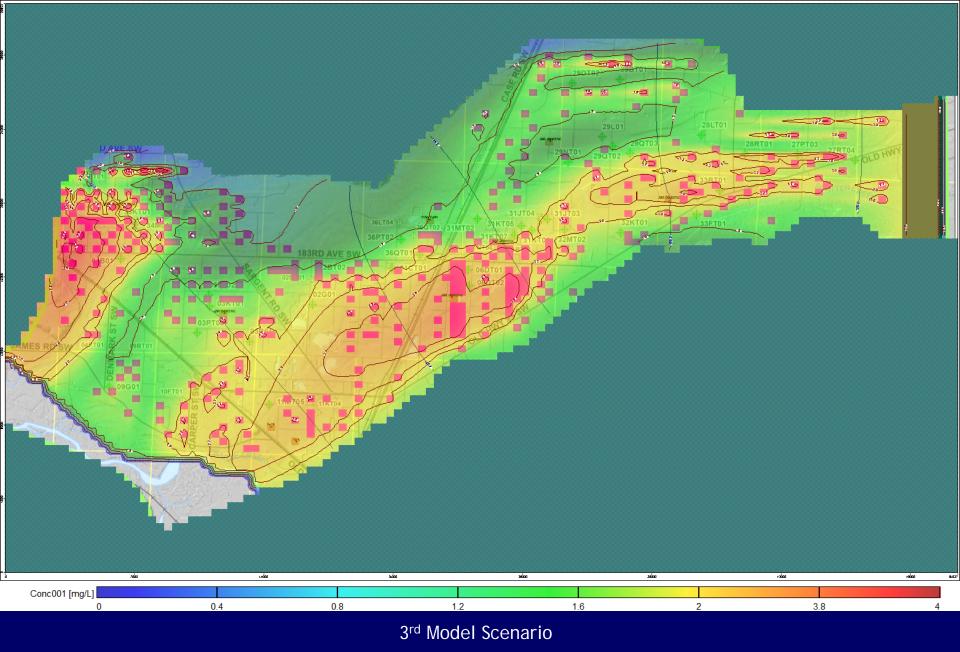


1st Model Scenario

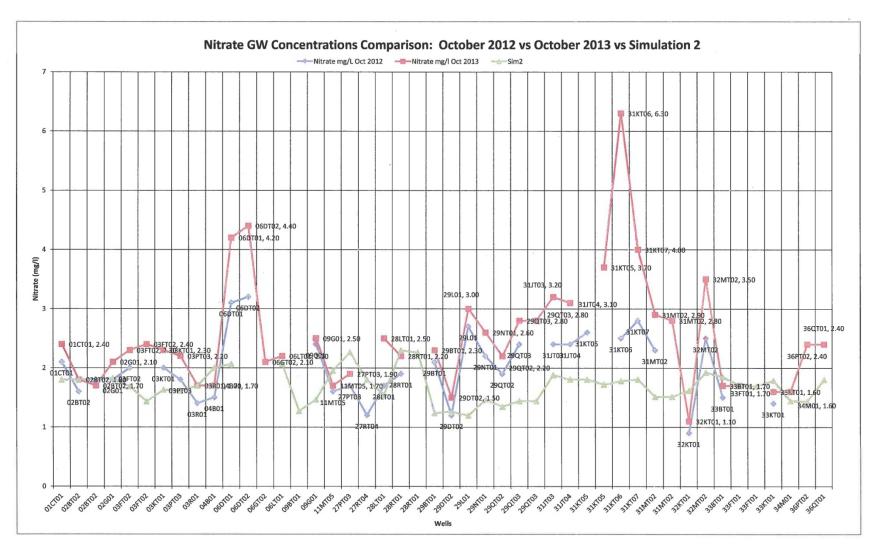
Current septic systems only



Adds all current legal lots + 2 mg/l nitrate from Tenino



Assumes full build-out + 2 mg/l nitrate from Tenino



Next Steps

- Calibrating model
- ❖Evaluating nitrate contribution from other sources such as
 - Fertilizer
 - Wastewater treatment plant
- Citizen's Committee works on recommendations



Decision Making Process

- Citizens Committee works with Health Department
- Discusses results of modeling and monitoring
- Suggested scenarios to model
- Develops range of options to protect drinking water quality in aquifer
- Seek community input

Community Input

- Help us be sure we have considered all options
- Help us understand how each option will affect people
- Help us identify who else we need to include in the process

So that we can make the best responsible decision to protect drinking water.

Coming Up

- ❖Newsletter: review?
- Wednesday, April 23 is the next community workshop: role?
- Another anticipated in September
- Expect committee recommendations by Nov/Dec.



Board Input to Protect Scatter Creek Aquifer

- Comments?
- Questions?
- Direction to staff?
- Direction to citizen's committee?



Project Website: www.co.thurston.wa.us/health/ehsc

Many thanks to:

The Scatter Creek Aquifer Project Citizen's Committee Kelly Alfaro Haugen, GIS wizard extraordinaire Nicky Upson, the webmaster

