

IRRIGATION And

High Capacity

Wells

What You Need to Know...

Iowa DNR Water Use and Allocation Water Supply Engineering Wallace State Office Building 502 E 9th St Des Moines Iowa 50319

Are you considering irrigation?

- ? WILL you be pumping at or above 500 Gallons per Minute (gpm)?
- ? ARE there nearby Private Wells, Other High Capacity Wells or Industrial Wells?

Know your well's geology, aquifers & water-bearing formations:

- Bedrock dolomite, limestone, sandstone
- Alluvial or Buried sands and gravel
- Protected aquifers such as:

Jordan Sandstone (Ordovician)

Devonian Limestone

Silurian Dolomite

Dakota Sandstone (Cretaceous)

WHY is this IMPORTANT?

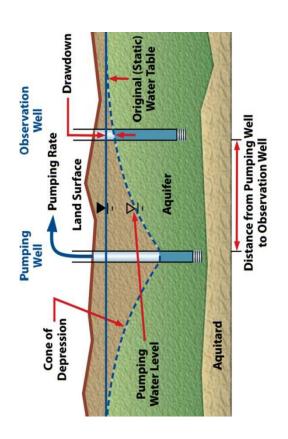
- ... Protect your well
- ... Protect your neighbor's well
- ... Protect Iowa's Ground Water Resources

To Obtain a Water Use Permit for a High Capacity Well

- ✓ Provide map of proposed irrigation well site
- ✓ Provide map inventory of wells and well construction details within a 1 mile radius
- Contact us prior or during construction for pump testing guidance based upon your geological setting
- Submit results of any required pump testing

 including production well and observation well(s)





What Permits do you need?

County Private Well Construction Permit

Your local Iowa Certified Well Driller

DNR Water Use & Allocation Permit
DNR – Water Supply Engineering –
Water Use & Allocation Team

Contact:

DNR Water Supply Engineering
Water Allocation & Use (WSE- WAT)
http://www.iowadnr.gov/EnvironmentalProtection/Water-Quality/Water-SupplyEngineering/Water-Allocation-Use

Michael K. Anderson, PE, Senior Engineer (515) 725-0336

Deborah R. Williams, Geologist III \$\\$(515)\ 975-1644

wateruse@dnr.iowa.gov

Additional Resources for:

DNR - Private Well Program

http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Private-Well-Program

Erik Day, Environmental Specialist Senior (515) 402-9781

Well Mapping Resources lowa Geological Survey - GEOSAM https://geosam.iihr.uiowa.edu/ho me

Iowa DNR - Technical Bulletin 23.1 - SD 0014



IMPORTANT INFORMATION ON IRRIGATION