

Location of Recharge Areas to the Sandstone Aquifer in Dunn County, Wisconsin - By Neil C. Koch 2005/2015

INTRODUCTION

NTRODUCTION The major aquifer that underfies all of Dunn County is the sandstone of Cambrian age. The sandstone aquifer receiving recharge from snowmet and rainfall in Dunn County. The snowmet and rainfall sinks into the source of the aquifer is to main or create, rivers, and takes. The sandstone is a much as 800 foret thick is nome places in Dunn County. The sandstone is may a result or the sandstone is a much as 800 foret thick is nome places in Dunn County. The sandstone is many as sand severing the sandstone is a submet as 800 foret thick is nome places in Dunn County. The sandstone is many as sand severing the sandstone is a submet as 800 foret thick is nome places in Dunn County. The sandstone mail and clays percent of the County (Subtentiant, 1927). The outwash deposite of sandstone aguifer. Reduced recharge to the aquifer may bar re in contact with the underlying sandstone. As development increases two potential problems could impact the sandstone aguifer. Reduced recharge to the aquifer may and the same same ague to the outpact the sandstone aguifer. Reduced recharge to the aquifer may and the same same ague to the outpact the sandstone aguifer. Reduced recharge to the aquifer may again the same same agains the compact the sandstone aguifer. Reduced recharge to the aquifer may again the same same agains the compact the sandstone aguifer. Reduced recharge to the aquifer may again the same same same than the same same there is a scellen to good receases to the aquifer. The aid in planning for future development in Dun County he location of recharge to the same scellen to good as a same same same same there is a scellen to good receases to the aquifer. The aid in planning for future development to county he location of recharge to the ago of many counter againstone aguifer is not scellen to good the same shore the same shore the same shore againstone agains

The purpose of this map is to show where the recharge areas to the sandstone aquifer occur in Dunn and to rark the solis from excellent to poor as to the sality to allow precipitation to recharge the aquifer he soli survey of Dunn County approved in 2004, was used for the base mapping. A recharge ranking

is given to 91 different soil types. Table 1 shows the soils that are classified under each recharge ranking A permeability rate is given for each recharge group.

PHYSICAL CHARACTERISTICS USED TO ESTABLISH SOLL RECHARGE RANKINGS The sander the sol the greater the recharge ranking. The more day within the sol column or substatus poore the recharge ranking. The sole ranked as excellent recharge potential to the sandstance aquiet cor-cellan sand or outwark. Sole ranked as good consist of a sand sand and and and the sole of the sandstance aquiet cor-cellan sand or outwark. Sole ranked as good consist of a sand sand and the sole of the sole of

RECHARGE CONCERNS. As deemed for promoteater withdrawal increases with population and industrial growth, recharge to the aguiter should not become less than withdrawal from the aguiter. The conversion of tim fields into urban developments results in buildings, criteways, streets, racks, and parking bits, which reduces ther exclarge from precipitation to the aguider. By carefully managing development in the excellent to good recharge areas urban development the results results and the classing development in the excellent to good recharge areas urban development with and less impact on urbaining schedups of the aguiter.

OLLUTION CONCERNS Soils ranked as excelle Solis namked as excellent recharge potential have the greatest risk of contaminants reaching the aguiter. Housing developments where several wells and septic feads exist world run the risk of the septic waters entering the aquifer. The permeability of these solis could be 20 intense per hour (table 2). Even in the very good recharge as list here could be septic contamination the well where the aluvium is very sandy overlying outwash. The direction of flow in the aquifer is important to determine so wells can be placed upgrademt from septic fields. Agricultural pollutarias contamination the aguifer quickly in excellent and very good recharge as a septic fields. Agricultural pollutarias contaminate the aguifer quickly in excellent and very good recharge as

ACMOVULEDGHAPTS A spostable have a Reck Mechelike. Conservation Planner Down County Land Co who computer generated her nechange map of he sola in Down County and helped marking of the solar and Loarty. Lanker, Resource Sol Scientist, U.S. Departme helped with modifying the ranking of the solar. Thanks also to Larry L. Natixe for providing suggestion. This map is the result of an activity by the Dunn County Gro Community, which is part of a program of The Groundwater Foundation, a private organization that informs and mortwater people to care about and to groundwater. ons. d with moc nt of Agricult wing the REFERENCES Sutherland, A.W. and I

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