Rajapakse, Champa

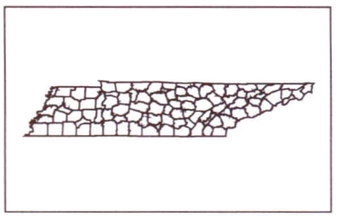
From: Clay Hepburn [chepburn@erwinutilities.com]
Sent: Wednesday, June 16, 2010 2:18 PM
To: Park, James
Attachments: Erwin_SWAP.pdf

http://www.state.tn.us/environment/dws/pdf/source_water_assessment_epa_report_aug_2003.pdf

Source Water Assessment – Ground Water

Erwin Utilities
PWSID 0000231
HUC8 06010108 / 06010103
Erwin, TN 37650

Unicoi County

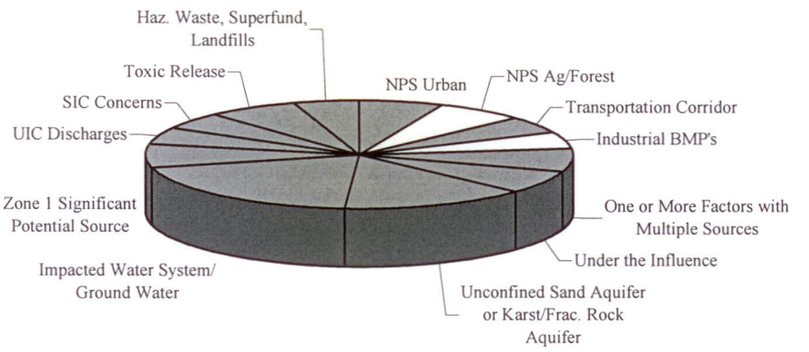


Erwin Utility's wellfield is located within the Nolichucky and Watauga watersheds. The system operates four wells that are screened in a crystalline rock aquifer. The Utility serves a population of approximately 11,454, and has an average daily production of 1.9 million gallons per day (MGD). The Tennessee Division of Water Supply considers the Erwin Utility's wellfield to be of ***high*** susceptibility based on the factors outlined below.

Within the wellhead protection area, the land use is characterized by urban, industrial, and rural areas. There are five cemeteries located within the protection area. There are no large agricultural operations located within the wellhead protection area. The Erwin wells are under the influence of surface water. Tetrachloroethylene, 1,2 Dichloroethane, and Ethylene Dibromide were detected in the well adjacent to the railyard at levels below drinking water standards. There are two facilities of concern located within the Zone 1 area. There are seventeen hazardous waste and three superfund facilities located within the Zone 2 area, along with fifty-eight facilities with priority SIC codes. There have been two known TRIS releases to land or water within the wellhead protection area. There are four facilities with underground injection control (UIC) discharges located within the Zone 2 protection area. Highways 19, 36, 107, and 395 run within the Zone 2 area.

For purposes of Tennessee's Source Water Assessment Program, high susceptibility is greater than 40% of the susceptibility diagram (pie chart) filled in from a summation of the susceptibility factors; moderate susceptibility is 20% - 40% filled in, and low susceptibility is less than 20% filled in. For further explanation of susceptibility analysis determinations and Tennessee's EPA-approved Source Water Assessment Program, the reader may contact the nearest office of the Tennessee Division of Water Supply at 1-888-891-8332 or the central office of the Division at 1-615-532-0191 for a copy of Tennessee's Source Water Assessment Plan. The Source Water Assessment Plan may also be found by visiting the Department of Environment and Conservation's Web site at http://www.state.tn.us/environment/dws. For more information regarding Erwin Utility's wellhead protection area and plan, the reader is advised to contact Erwin Utilities or contact the central office of the Division of Water Supply.

Ground Water Source Susceptibility Diagram



The SIC (Standard Industrial Classification) Codes factor is related to commercial/industrial facilities which are typically a concern for water contamination.

NPDES (National Pollutant Discharge Elimination System) discharges factor is related to facilities permitted to discharge wastewater to the stream upstream of the intake.

NPS (Nonpoint Source) AG/Forest factor is related to environmentally unsound agricultural or forestry practices in the area.

NPS (Nonpoint Source) Urban factor is related to urban runoff problems within the area. Unless the Division of Water Supply has information to indicate otherwise, this factor will be scored in urban settings (e.g., indicated by urban coverage on topographic map) by default.

Industrial BMPs factor is scored for a lack of best management practices ("sloppy housekeeping") for industries in the area.

The One or More Factors with Multiple Sources ("Multiplicity factor") is used to score circumstances where there are multiple sources under a specific category to add additional weight to the score. This is used for nonpoint source, toxic release, Hazardous Waste/Superfund, NPDES and SIC concerns.

Disclaimer: Source Water Intake Susceptibility Analysis is based upon best available data at the time of susceptibility analysis preparation.

Date prepared: 04/24/02