Ground-Water Movement and Nitrate in Ground Water, East Erda Area, Tooele County, Utah, 1997-2000

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ABSTRACT

The spatial distribution of nitrate in ground water on the east side of Tooele Valley, Utah, indicates that the ground-water system is a highly connected system. Changes in ground-water flow directions. Specifically, (1) the vertical and horizontal distribution of nitrate, (2) the direction of nitrate plume separation, and (3) the source of the nitrate were investigated.

The vertical and horizontal distribution of nitrate was determined from a field reconnaissance of the distribution of nitrate in ground water in existing wells in the east Erda area. The direction of movement of nitrate was determined from analysis of nitrate contamination. The source of the nitrate was determined from analysis of nitrate contamination. The source of the nitrate was determined from analysis of nitrate contamination.