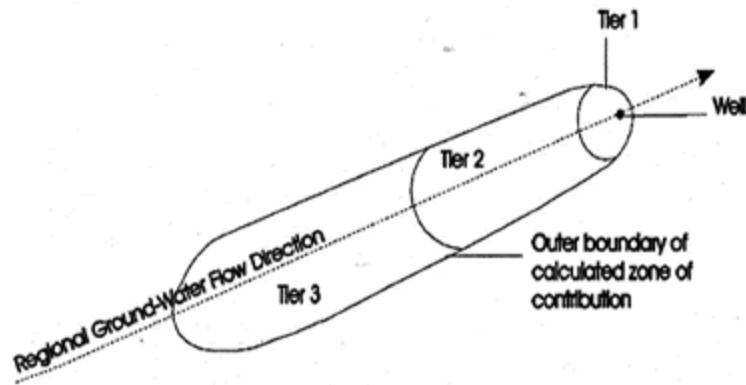


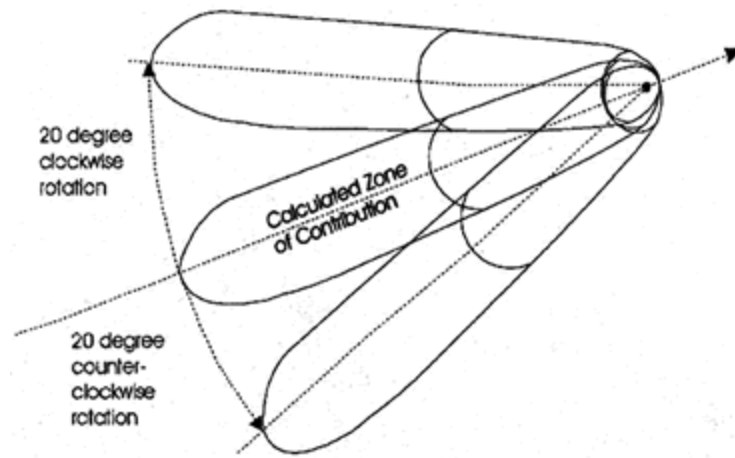
## Delineation Step Illustration (Ground Water)



### Step 1

**Standard RESSQC Output:** First a Zone of Contribution (ZOC) is calculated using RESSQC model using a well or aquifer attributes such as depth, pumping rate, permeability, gradient, and porosity. ZOC is segregated in 3 tiers; 2 year time of travel (TOT), 5 year TOT, and 12 year TOT. The ZOC is aligned along the regional ground water flow direction.

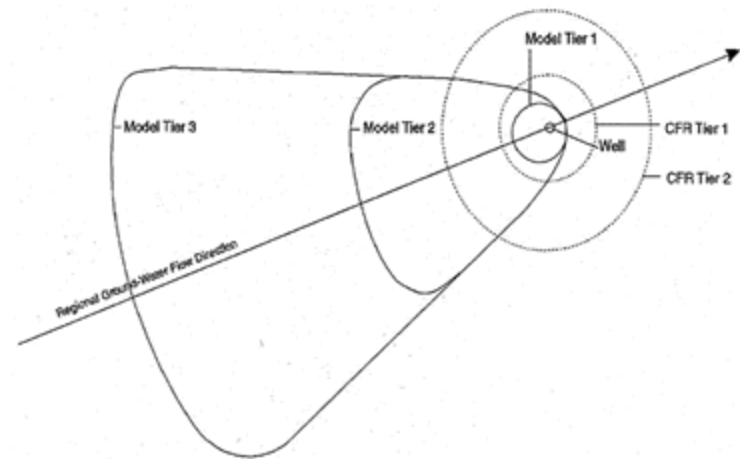
### Delineation Step Illustration (Ground Water)



#### Step 2

**Outpath After Process:** Because there is uncertainty of ground water flow paths near a well, a clockwise and counter-clockwise 20 degree angle of rotation is applied to the output in Step 1.

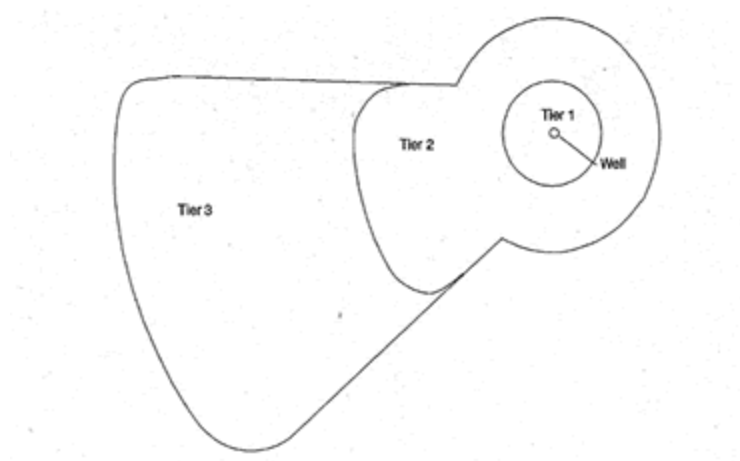
### Delineation Step Illustration (Ground Water)



### Step 3

**Outpath After Process** (Calculated Fixed Radius for Tiers 1 and 2): Because of uncertainty of ground water flow paths, a calculated fixed radius is superimposed on the calculated ZOC for Tiers 1 and 2.

### Delineation Step Illustration (Ground Water)



#### Step 4

**Example of Final Source Water Assessment Area:** Steps 1 through 3 come together to produce a final source water assessment area for the public community water system well. The source water assessment area is composed of three combined model TOT tiers with calculated fixed radius TOT for tiers 1 and 2.