

# Push-Pull Method

(Addy et al., 2002)

1. Pump groundwater
2. Amend with  $^{15}\text{NO}_3^-$  and  $\text{Br}^-$
3. Lower DO to ambient levels w/ gaseous  $\text{SF}_6$
4. Push (inject) into well
5. Incubate
6. Pull (pump) from well
7. Analyze samples for  $^{15}\text{N}_2$  and  $^{15}\text{N}_2\text{O}$ , the products of microbial denitrification

