log10 TKN (mg/L) 1.0 MDC = 18% MDC = 26% MDC = 19% 1.5 % Var Exp = 20.4 0.5 Observed Values 1.0 Residuals 0.0 -0.5 0.0 before 0.4 0.5 0.7 0.8 0.9 1.0 after (alfalfa) 0.6 after after (corn) Fitted Values 0.5 0.5 Residuals Residuals 0.0 0.0 -0.5 -0.5 0.4 0.5 0.6 0.7 0.8 2012 2014 2016 2017 0.9 1.0 2013 2015 Fitted Values Year