

## **Appendix O1-- NWIS coding for coliphage results** updated 10/27/03

### Remark Codes

< less than  
> greater than  
E estimated value

### Value Qualifiers

k counts outside the acceptable range  
@ holding time violation  
d diluted sample; method hi range exceeded  
s instrument sensitivity problem  
c see laboratory comment

### Laboratory Comment

- Sample analyzed after 48 hours, but before 96 hour holding time.  
(sample arrived cold and within 96 hours, but exceeded 48 hour holding time)  
Use E, @, c
- Sample reanalyzed after 48 hours, but before 96 hours, because QC failed on tests done before 48 hours.  
(sample arrived on time and cold, but QC failed the first time)  
Use E, @, c
- Positive control results were slightly below USEPA acceptance criteria; results are acceptable but may be biased low.  
Use E, s, c

### Null Value Qualifiers

q sample discarded: holding time exceeded (96 hours)  
w sample discarded: warm when received  
i required sample type not received  
b sample broken/spilled in shipment  
o insufficient amount of water  
x failed quality-assurance review  
l analysis discarded: low surrogate recovery  
c sample lost in lab

### Laboratory Comment

- Laboratory negative control was positive so result was not valid.  
(lab negative was positive and we did not rerun it within the 96-hour holding time)  
Use x
- Because host bacteria did not grow enough for detection of plaques, result was not valid.  
(spot plates did not grow full lawn, and we did not rerun it within the 96-hour holding time)  
Use x
- Positive control results were considerably below USEPA acceptance criteria; results are not valid.  
Use l