

From: Ken Ludwa
To: Linda Logan; Paul Fendt
Date: Tue, Jun 1, 1999 6:50 PM
Subject: Receiving Stream Data: Upstream Compliance

As Brian suggested, I looked at the receiving stream (upstream) data to determine whether the receiving stream is in compliance with standards.

The best existing data that I've found for upstream conditions is (1) the Stream Effects Study, and (2) the upstream samples we took for de-icing last winter. I have previously asked Scott and Tom about existing data. They've both suggested King County and the City of Des Moines Reports, neither of which have any additional upstream data.

Using methods analogous to the Reasonable Potential Analysis, I calculated the 90th percentile value for instream copper data and compared it to the standard for the 10th percentile hardness value. Neither stream is currently in compliance, as shown below:

<u>Stream</u>		<u>90th %ile Cu</u>	<u>10th %ile Hard</u>	<u>Standard</u>
Miller	16.4	23.0	4.3	
DM	7.5	33.0	6.0	

As we discussed, a WER of 2 or more for Des Moines and 4 or more for Miller (both of which seem like pretty reasonable bets) would get the receiving streams to "compliance."

Also, if we do clean sampling techniques and they reflect lower instream concentrations, we may be able to throw out the previous data.

CC: Brian Pippin