

From: [Roberts, Tanya \(ECY\)](#)
To: [Braley, Susan \(ECY\)](#); [Koch, Ken \(ECY\)](#)
Subject: FW: Continuous Temperature--Technical Assistance--Policy 1-11 comment
Date: Tuesday, August 23, 2011 3:50:46 PM
Attachments: image001.jpg
mrs_2005_dunham001.pdf

Susan,

We have had a comment regarding the interval period of continuous datasets. The Policy 1-11 (under temp) formerly asked for ½ hour intervals. The Kalispel tribe, and possibly others, have taken hourly intervals and have questioned why that would be inadequate. The continuous DO allows for 1 hour, and Chad said that he thinks that the definition of an acceptable interval for “continuous” temperature should be intervals of 1 hour or less.

I have encouraged the commenter (Dan McMeekan with the Kalispel tribe) to make a formal comment. Can we consider this it (first comment in Dan’s email below)?

Also, is it safe to say to Dan that yes, hourly temperature measurements will be considered acceptable for listing decisions provided all other aspects of the data credibility requirements are met?

From: Ward, Bill (ECY)
Sent: Tuesday, August 23, 2011 11:05 AM
To: Brown, Chad (ECY); Roberts, Tanya (ECY)
Subject: FW: Continuous Temperature--Technical Assistance

Chad and Tanya,

This is the e-mail I spoke about at the meeting.

I would like to coordinate a response and need your input.

Bill Ward

Environmental Assessment Program

Freshwater Monitoring Unit

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From: Dan McMeekan [mailto:dmcmeekan@knrd.org]
Sent: Tuesday, August 23, 2011 8:26 AM
To: Ward, Bill (ECY)
Cc: Ken Merrill
Subject: RE: Continuous Temperature--Technical Assistance

Bill, as per our conversation yesterday, here are a few bulleted points that our water resources

department needs more information on or would like taken into consideration. Also, I wanted to extend a thanks for keeping us in the loop when it comes to developing specific criteria that Ecology will be utilizing in the coming weeks for assessing waters in the state. This will make it much easier for our department to submit relevant and timely data for assessment consideration.

Temperature, time series questions

- First, we would like some direction when it comes to utilizing time series data in 30 minute intervals. I have searched the literature that exists in Ecology publications and can find no evidence that 30 minute intervals should be utilized over sixty minute intervals. I have included a publication from USGS/RMRS that essentially argues the opposite is needed to accurately assess watersheds for maximum temperature without having to expend unnecessary time or funds to do so. Essentially I am asking that someone point us in the direction of the literature that argues for the methodology being used. Also, we understand that if data submitters can prove that they have quality assurance plans in place and data that passes some criteria threshold, that hourly measurements can in fact be used for TMDL/Level 5 impairment inclusion?
- What method or data formatting would the Department of Ecology prefer to assess temperature? After our conversation Bill, it seemed as though the department would be testing data sets both by charting 7DADMax temperatures but also by scrutinizing unsummarized raw data as well? Can we receive clarification of testing methods and preferred method/format of data submittal?
- We understand that the Department of Ecology will only be using data 5 years prior to the May 31 2011, data deadline cutoff for the water quality assessment. Can data from prior years be submitted? If so, can that information be used to make informed decisions regarding assessments for individual waters leading up to this years' assessment?

General Assessment questions

- Also, in regards to the water quality assessment as a whole, can we get some more information regarding the segmentation system that is being put into place using the USGS NAD hydrograph layers? For instance, we would like to know that if a portion of a watershed is impaired, whether the downstream portion or upstream portion of a watershed would be considered impaired as well?

Thanks again Bill. I will talk with you soon.

Dan McMeekan
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KNRDLogo



From: Ward, Bill (ECY) [mailto:bwar461@ECY.WA.GOV]
Sent: Monday, August 22, 2011 2:04 PM
To: Dan McMeekan
Subject: RE: Continuous Temperature--Technical Assistance

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From: Roberts, Tanya (ECY)
Sent: Thursday, August 18, 2011 11:24 AM
To: Ward, Bill (ECY)
Cc: Dan McMeekan
Subject: Continuous Temperature--Technical Assistance

Hi Bill,

Dan McMeekan of the Kalispell Tribe has questions about continuous temperature assessment. You are more qualified to talk with him about this than I. I've given Dan your number. Please let me know the outcome of any discussion.

Thanks!

Tanya M. Roberts
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