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**From:** Price, John [Jpri461@ECY.WA.GOV]  
**Sent:** Wednesday, June 18, 2003 1:44 PM  
**To:** Tom Zeilman (tzeilman@yakama.com); Astrid Larsen (astrid\_p\_larsen@rl.gov); Dan Landeen (danl@nezperce.org); Donald W. Steffeck (don\_steffeck@fws.gov); Gadbois.Larry@epamail.epa.gov; Lauri Vigue (Lauri Vigue (E-mail)); Susan C. Hughs (susan.c.hughs@state.or.us); Goldstein, Larry  
**Cc:** Ford, Bruce H; Bryan L. Foley (Bryan\_L\_Foley@rl.gov); 'Cameron, Craig E'  
**Subject:** status of 200 Area ecological DQO

I had an action item from the last meeting to get back to you regarding level of effort on the 200 Area ecological DQO. I'm still working on the detailed schedule so I don't have the dates nailed down yet. However, I want to give you an interim report to keep you informed.

The level of effort is probably 3 meetings, plus a couple of document reviews:

- Interview for Step 1 (first meeting)
- Review of interview results, possibly including 2 iterations
- 1-day meeting for Steps 2, 3 and 4 (second meeting)
- 1-day meeting for Steps 5, 6, and 7 (third meeting)
- a detailed review of resulting Sampling & Analysis Plan

I'll get together with Bryan Foley and Craig Cameron to finalize the schedule, then we'll send it to you so that you can plan on attending the necessary meetings.

John Price, Project Manager  
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## DQO Steps Outline

- I. DQO Step 1: State the Problem
- II. DQO Step 2: Identify the Decision
  - A. Write the decision statement
  - B. Write an alternative action statement
- III. DQO Step 3: Identify Inputs to the Decision
  - A. Identify the types of data that are required to resolve the decision statements in Step 2
  - B. Evaluate existing data to see if it meets required data requirements
  - C. Identify the action levels
  - D. Determine if the appropriate analytical methods exist
- IV. DQO Step 4: Define the Boundaries of the Study
  - A. Specify the characteristics that define the boundary
    1. Population of interest
    2. Spatial boundaries
    3. Temporary boundaries
    4. Practical constraints
    5. Scale of decision-making
- V. DQO Step 5: Develop a Decision Rule
  - A. Formally designate what specific actions will follow and what the

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specific action will be

VI. DQO Step 6: Specify the Limits of Uncertainty  
A. Specify decision makers tolerable limits

VII. DQO Step 7: Optimize the Sampling Design  
A. Identify the most resource-effective design for generating the data,  
if data are required, otherwise write explanatory text to indicate the reason  
for no additional sampling

1. Specify sample locations
2. Specify number of samples
3. Sample or data collection method
4. Analysts/analytical methods
5. Implementation Strategy