

Columbia River Toxics Mapping Workgroup Meeting May 16, 2016

Participants:

Tony Grover, NWPPC
Mary Lou Soscia, EPA
Jennifer Morace, USGS
Sean Payne, USGS
Dianne Barton, CRITFC
Joel Salter, EPA

On the phone:

Lyndal Johnson, NOAA
Lori Pillsbury, OR DEQ
Marty Jacobson, EPA ORISE
Jonnel Deacon, EPA ORISE
Loraine Edmonds, EPA
Jim Medlin, WA Ecology

The major agenda items include:

a) NWPPC report on new leadership for this work;

Tony discussed the options for future participation in the workgroup. Post Jim Ruffs departure. Laying out the mission of the NW Power Council and the relationship to their priorities. He mentioned they support characterizing the CR basin, but it must be clearly communicated and if using GIS, the legends should stand alone. i.e., not require a lot of additional clarification of what is being communicated.

The NWPPC plans to have someone hired by August of this year. But is is not definite that they will take on this work. Nancy Leonard is likely to be involved as well as Tony for now.

b) Review of the action items from the April meeting;

- a. Marty and Jonnel agreed to check on the QA/QC of EPA's contaminant data.
- b.** Lyndal Johnson, Jennifer Morace, Marty Jacobson and Jonnel Deacon have been working on a map for a current use pesticide. The goal will be to prepare a complete contaminant data set in order to get a better estimate of the time involved in processing the data, which will assist the work group in developing a statement of work for a contractor.

Marty, mentioned that they have been in touch with EPA's Duane Young in Washington DC to see if any QA/QC is performed on the merged database (waterqualitydata.us - includes STORET, NWIS [WQ data from USGS], and BioData [biological/habitat data from USGS]). No answer yet, but doubtful that they

provide any QA to the data. We think it is probably just compiled in this one location. about the QA/QC of a data base. No answer yet about WQX/STORET data merging (Old and new? State/Local/Federal?)

Marty began discussion on the DDX - tissue data that they mapped. (DDX given the breakdown of DDT .> DDE >etc.) Only the WA data made it through the filter and therefore only WA data mapped.

Lorraine, talked about the data breaks and the legend of the GIS map. Color coded dots differentiate between not detected and detected at different levels based on fish consumption rates. Used 1.176 = low consumption (57gms/day), 3.448 = high consumption (175 gms/day). MLS has said in the past that any levels used by the Work Group need to be consistent with what is being used in the basin. EPA and Oregon have agreed on higher consumption rates (175 g/day) for determining WQ criteria, and Washington is closely following behind in their process. This will need to be a bigger discussion before we release anything.

Jennifer, Discussed the conversations she and Lyndal had with Marty and Jonnel about the filters for the data. They focused on the sediment and water data, because they were having trouble finding current data for contaminants in tissues. She mentioned that 'they left with more questions than when they started' (an observation consistent with what Marty and Jonnel expressed early on in looking at the data). Using the chlorpyrifos pesticide in sediment and water data (no tissue data), they mapped detection and non-detection points on the map. (See the presentation for details). We discussed whether this is a good contaminant to be analyzing given that MLS thought it was being phased out. Further discussion about the challenges of finding data for contaminants and media that we care about. There's plenty of data for "older" contaminants, but not a lot for "newer" contaminants that we know may have more use or more potential to make a difference with. We're struggling with the frustrations of how to show information that will be of use to policy makers in the basin.

Lori, Talked about the Oregon LASAR data system they used up until 2012. Now Oregon is focused on putting the data into the WQX data base. To access any ODEQ data after 2012, we will need to make a request to ODEQ (not in LASAR). She clarified that they are not putting in any 'Tissue data for chlorpyrifos'. They continue to monitoring the Hood River basin for this pesticide.

Tony, Emphasized a need to keep this simple, clear about what is missing, and what is being said. Possibly have a tutorial about the topic.

Regarding cost: Marty, confirmed that potential work of processing the existing data for use in a GIS map. 1 hour per pollutant per media (water, sediment, tissue). This hour could include several individuals including: GIS mapper, data manager, and subject expert.

Jennifer, Commented on the nuances of the data selection criteria significantly influences what can be interpreted from the data measures.

c) Update on any work done to develop a current use pesticide data base; *MLS suggested we should talk with Kevin Masterson about the current pesticides of concern. Lyndal, suggested that PAH's are a significant concern and generally well monitored.*

MLS, suggested using Aquatic Life criteria rather than Human-Health criteria for evaluation. We should be able to get information from Pesticide Stewardship Partnership Program and the criteria that ODEQ and ODA use.

Lorraine, suggested that we could back calculate from WQ criteria for Eco risk and fish health, but warned that fish tissue data is primarily collected for human health concerns.

d) Continued discussion of potential threshold or criteria levels for each of the various toxic contaminant groups.

Tony is interested in pulling together all studies in the CR basin and mapping those with links. Sources of information could include State monitoring programs, Federal, etc.

Jennifer mentioned the added complexity of the age of data. Can we decide on the 'one compound' to use for summarizing conditions? What about the synergistic affects? What are the best summary statistics? Impairments, or something else?

e) Next steps and next meeting date.

- 1) *MLS will talk with Kevin Masterson about pesticide studies*
- 2) *Lorraine will work with Marty and Jonnel to tighten up the legends*
- 3) *Marty and Jonnel will document the decision process*
- 4) *Jennifer will ask Catherine Corbett to report out on the lower Columbia study*
- 5) *Tony will talk with Binh Quan about working with data provided by Marty to develop a GIS overlay.*
- 6) *MLS will contact Mike Cox and ask him to present workshop data on landuse.*
- 7) *Joel will provide a summary of the meeting*

Proposed June 23 Meeting Agenda

- *Demonstration by Nancy Leonard of NWPCC data sets*
- *Report out by Catherine Corbett on Lower Columbia GSI Study*
- *Report out by Mike Cox on Columbia River Monitoring Workshop and land use data sets*
- *Update on work efforts to incorporate Jennifer's filter*