



SRRTTF
Tech Track Work Group Meeting
Monday October 5: 10:00 am – 12:00 pm Pacific Time
ZOOM Meeting

Meeting Materials–

- GIS Mapping of historic/current sites with PCBs in the Mission Reach (Amelia Drake and Brian Nickel, USEPA)
- Powerpoint Presentation – Results from Temperature Float of Mission Reach (Tighe Stuart)

Attendees

Bill Baker, WDFW

Jeff Donovan, City of Spokane

Doug Krapas, IEP

Jeremy Schmidt, WA Department of Ecology

Tighe Stuart, WA Department of Ecology

Amelia Drake, Portland State University

Karl Rains, WA Department of Ecology

Ken Windram, HARSB

Lisa Dally Wilson, Dally Environmental, SRSP

Joel Breems, Avista

Dave Dilks, LimnoTech

Alyssa Gersdorff, City of Post Falls

Brandee Era-Miller, WA Dept of Ecology

Sandy Treccani, WA Department of Ecology

Cadie Olsen, City of Spokane

Brent Downey, Kaiser

Brian Nickel, USEPA

Logan Callen, City of Spokane

Ben Floyd, White Bluffs

Kris Holm

Tom Agnew, LLSWD

Mike Peterson, The Lands Council

Mike Anderson, City of Coeur d'Alene

Rob Lindsay, Spokane County

Mike Hermanson, Spokane County

Dr. Lisa Rodenburg, Rutgers University

Note – action items in red

Purpose of Meeting, Expected Outcomes –

- Discuss PMF Phase 2 options as they relate to Tech Track Work Group project scoping
- Presentation of preliminary results from USEPA Intern showing GIS coverage of historic and current sites that have used PCBs in the mission Reach
- Presentation and discussion of results of Temperature float of Mission Reach

PMF Work Phase II

1. Influent/Effluent study of discharger data – Mike Hermanson lead a discussion of purpose, issues with Pacific Rim samples as they relate to PMF assessment (City of Spokane samples from 2012 to 2016 and all Liberty Lake samples), and which IEP samples to include in this study.

- a. Goal of the municipal study is to understand how effective secondary and tertiary treatment are in removing specific factors identified in the PMF analysis. Will include secondary and tertiary treatment data from IEP.
 - b. Issues with the Pacific Rim data included detection limit and coelution problems given the column used in the lab at Pacific Rim is different than the column used by AXYS. Preliminary PMF analysis of LLSWD effluent data indicates issues with the data, one of which is the detection limits.
 - c. Separate question is “what are we going to do about Pacific Rim samples moving forward”. LDW to talk with BiJay Adams at LLSWD.
2. Scoping Additional PMF Work - What questions do we want to answer? How can PMF assist in our other technical efforts? (Mike Hermanson, Dr. Lisa Rodenburg as advisor)
- a. What can we learn about sources by evaluating the synoptic data and evaluate loadings? Can get information on source ID. Mass balance will help get a handle on magnitude. Will help to prioritize sources for hot spot analysis. Very important.
 - b. Could we combine the GE groundwater data with the Kaiser groundwater data, and possibly the SRRTTF groundwater data as one matrix and in combination with a surface water mass balance evaluate the connection between the calculated groundwater sources and the measured? Yes
 - c. With additional 2019 biofilm data will we have enough to do PMF instead of MLR and can that be compared to the surface water and groundwater data to evaluate the movement from the water column to biofilm? Yes.
 - d. Are there any connections that can be made between the biofilm and fish tissue data? Yes. Ecology and EPA have some issues with assessing fish in PMF because the results are not necessarily actionable. The agencies request further discussion on this aspect of PMF. The TTWG will revisit the fish tissue/PMF topic.
 - e. Is there a connection between factors found in stormwater samples and the monthly surface water samples taken at high flow?
 - f. Is there a spatial relationship between the factors found in surface water samples and fish tissue samples? Ecology and EPA have some issues with assessing fish in PMF because the results are not necessarily actionable. The agencies request further discussion on this aspect of PMF.
 - g. Can we use PMF to do a spatial comparison of concentrations in fish tissue? Agencies request further discussion.

Dr. Rodenburg will complete the scope of work for the additional influent analysis in time to be submitted to the full SRRTTF for approval at the October meeting. She will provide a second, over-arching scope of work for PMF analysis of additional Task Force data to be completed by June 30, 2021. Further discussion is needed on the fish element of the over-arching analysis prior to submittal to the Task Force.

Preliminary results - GIS coverage of historic/current sites with PCBs in the Mission Reach

Amelia Drake, intern for USEPA & Brian Nickel, USEPA presented the results of her GIS analysis. **Brian will work with EPA GIS group to see how to best display this information and share it with the SRRTTF.** Karl suggested that the GIS layers be shared with the Data Management Work group. There appears to have been PCBs used at a former City of Spokane Bus Barn currently called the Crislor Building that is very near some of the hottest biofilm sample locations. TTWG members raised questions about stormwater at this site. There appears to be “private” stormwater outfall pipes between two of the City’s MS-4 outfalls. **Follow-up investigation involving observation of the pipes during the next storm event was suggested.**

Results from Temperature Float of Mission Reach

Tighe Stuart from Wa Dept. of Ecology reported on the results of a temperature float of the Mission reach (see ppt presentation). As part of the temperature float, Tighe took photographs of all visible outfall pipes. **Next steps involve the City of Spokane (Jeff Donovan) working with Tighe to identify which outfalls he observed are MS-4 outfalls and which are “private”.** Photos taken during the float were shared. **Suggested that we look into Photos #13 and #14 further.**

Question regarding what entity regulates/oversees private outfalls. **Karl will look into this question. Jeff Donovan will provide locations of city outfall locations.** Brandee stated that they will share the memo regarding the temperature float.

Maps and powerpoint presentations from today’s meeting are available on the SRRTTF website.

CHAT FROM ZOOM Meeting:

From Karl Rains to Everyone: 10:10 AM
Can you refresh all goals of the PMF study?

From Brandee Era-Miller to Everyone: 10:40 AM
Please do all the biofilm samples! :)
There are 52 samples combined between 2018 and 2019.

From Brian Nickel to Everyone: 11:12 AM
I think Ameila is referring to a spreadsheet that she is currently not sharing.

From Brian Nickel to Everyone: 11:25 AM
<https://fortress.wa.gov/ecy/publications/documents/0703055.pdf>
That's that 2007 Parsons report.

From Brandee Era-Miller to Everyone: 11:25 AM
Awesome. Thanks Amelia and Brian,

From Brian Nickel to Everyone: 11:40 AM
On right bank at about km 4, you see a small dip in temp at the bottom as well as some conductivity changes.

From DAVID DILKS to Everyone: 11:57 AM

Tighe, can you share this presentation with the group?

From Brandee Era-Miller to Everyone: 11:59 AM

We can share all the data with the group. Tighe already put together a memo.

From DAVID DILKS to Everyone: 11:59 AM

Great, thanks.

From Brandee Era-Miller to Everyone: 12:00 PM

What about adding the questionable sites to Amelia's map?

From Karl Rains to Everyone: 12:01 PM

Thanks Tighe!

From Brandee Era-Miller to Everyone: 12:02 PM

Yes, Thanks Tighe!

From Mike Petersen to Everyone: 12:03 PM

Thanks for the interesting meeting!

From DAVID DILKS to Everyone: 12:03 PM

Thanks all, very informative.