

SRRTTF

Tech Track Work Group Meeting

Dave Dilks

December 2, 2015

Items

- Elevated lab blanks for some 2015 synoptic survey results
 - Do alternate blank correction methods help?
- Spokane County comments on “final” technical documents for 2014
 - Revise 2014 documents or address comments in culminating reports for 2015?
- Wet weather sampling recommendation



Elevated lab blanks

- Higher than acceptable PCB concentrations observed in two laboratory blanks
 - One of these elevated lab blanks affected data from 8/18 and (some) 8/19 samples
- Suggestion made at last Task Force meeting to re-do blank correction using field blank instead of lab blank
 - Four different field blanks were available



Blank-Corrected 2015 Data (pg/l)

Station	Location	8/18	8/19	8/20	8/21	8/22
SR-3	Spokane R. at Spokane	2.9 <u>22.7, 48.2, 11.6, 4.6</u>	1.9 <u>32.9, 63.3, 19.4, 8.1</u>	178.5	170.3	170.3
SR-4	Spokane R. at Greene St. Bridge	100.4 <u>121, 136.7, 115, 103.5</u>	52.2 <u>35.6, 55.3, 19.9, 5.4</u>	109.8	173.8	
SR-5	Spokane County Regional WRF	154.9; <u>137.9-192.7</u>		465.9		322.8
SR-6	Inland Empire Paper	4265.8; <u>3927.8-4353.9</u>		4449.3		3101
SR-7	Spokane R. at Below Trent Bridge	71.6; <u>137.1, 140.5, 115.1, 94.9</u>	167.6; 132.3	133	119.7	155.9
SR-8	Kaiser Aluminum	2810.7 <u>2832.1-2845.4</u>		2789.6; 2645.8		3178.6
SR-8a	Spokane R. at Mirabeau Park	1.4 <u>5.4, 12.6, 9.3, 4.3</u>	16.7	5	8.4; 1.4	3
SR-9	Spokane R. at Barker Rd. Bridge	1 <u>3.1, 8, 3.7, 1.8</u>	6.6	20.4	108.1	7.42; 44.5

Elevated lab blank; Alternate blank used for correction; Acceptable blank



Options for Next Steps

- ~~1. Proceed with alternate blank correction~~
2. Have AXYS re-analyze samples
 - Adds delay to mass balance analysis
3. Proceed with existing data
 - Discard tainted data, sacrifice “completeness”
4. Hybrid approach
 - Conduct draft analysis with existing data
 - Update approach when new AXYS data arrives



Comments on “Final” 2014 Technical Documents

- Certain items in our contract (or QAPP) weren't explicitly spelled out as deliverables:
 - Data review/validation
 - Data usability assessment
 - Field data audit
 - Final synoptic survey database



Comments on “Final” 2014 Technical Documents

- Items were provided and posted to web site, but never given to larger group for review
- Spokane County reviewed these documents and provided several comments
 - Good, constructive comments
- Larger question is whether to go back and revise the 2014 documents or address comments in culminating reports for 2015?



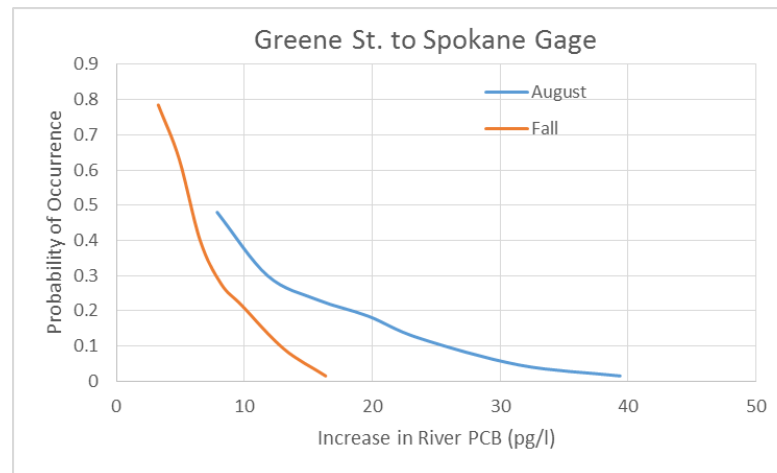
Wet Weather Monitoring: Background

- Data assessment in 2013 identified wet weather PCB loading as a key data gap
- 2015 Workshop recommended wet weather monitoring
 - Conduct synoptic survey to support similar mass balance assessment as was done for dry weather



Wet Weather Monitoring: Background

- Subsequent analysis concluded that mass balance was unlikely to produce conclusive results
 - Increase in river concentrations likely too small



- Mass balance assumes steady conditions (e.g. loads)



Wet Weather Monitoring: Background

- Feedback from November 2015 Task Force Meeting was that wet weather monitoring is still of interest



Wet Weather Monitoring: Recommendation

- Conduct wet weather monitoring *only if* the following types of results are acceptable
 - Synoptic snapshot of wet weather PCB concentrations in the river
 - Verification of assumption that existing loads don't cause a major increase in river concentration
 - Rule out (or, potentially, discover) “smoking gun”
 - Additional information on importance of Hangman Creek load



Wet Weather Monitoring: Recommendation

- Don't conduct wet weather monitoring if the following results are *un-acceptable*
 - PCB mass loading at individual river stations are too noisy to accurately estimate wet weather loads
 - Minimal improvement in accuracy of annual MS4 loading estimate



Wet Weather Monitoring: Potential Components

- River Stations
 - Greenacres, Trent, Greene, Spokane Gage, Nine Mile
- External sources
 - Hangman Creek, Cochran basin stormwater
- Three days of sampling
 - Immediately post-storm and two subsequent days
- Cost
 - \$50,000, plus contingencies

