FY 2014 WQ Improvement Project Proposal Form

Regional Office: ERO **Project Type**: **Other**

Project Title: **Aerial Deposition of PCB** WRIA#: 54, 55, 57, 56

☐ This will also be an EAP Project Request

Regional Office Contact: Adriane Borgias

Check Pollutants that are addressed by this project

Description of the proposal including water body names, known impairments/suspected problems, etc. If this is an STI proposal, describe how it meets STI criteria):

This project is a follow up to the 2011 literature review about air deposition of toxic chemicals (PCB, PBDE, PCDD/Fs, and mercury) and its contribution to their loading in the Spokane River. Sources of these chemicals can be local, regional, or global and transported in the atmosphere before deposition. There is limited data on this for Washington State and none for Eastern Washington. This project would coordinate with other Ecology deparments and the local air pollution control district to collect data about PCB deposition. Existing air monitoring locations can be used to collect ambient air samples. 1) An initial assessment of PCB quantities and types (congeners) of PCB in the air can be made using filters that are already being collected by the local air district. This information could be used to characterize PCB being deposited in the watershed and/or identify if alternative sampling methods are warranted. 2) Other sampling protocols may be warranted (such as collecting air samples on XAD resin) depending on the initial assessment. The ultimate goal is to obtain a congener analysis for atmospherically deposited PCB, which would assist in source identification. This information would be used to identify the specific actions needed to significantly reduce these toxic materials from the watershed.

Check pollutants that are addressed by this project

- ☐ Temperature
- ☐ Dissolved Oxygen
- ☐ pH
- ☐ Nutrients
- ☐ Bacteria
- ☐ TSS/Turbidity
- ☐ Metals
- ☑ Toxics
- ☐ Other: Enter Pollutant

Identify Designated Beneficial Uses and Water Quality Criteria:

Core summer habitat, Spawning/rearing; Ext primary cont. and primary cont; all water supply uses and all misc. uses. Spokane Tribe of Indians Water Quality Standards apply for PCB.

Identify all relevant NPDES Permits (permit type, permittee name, in the project area. Are any of these permits due for renewal during the project timeline? ID any anticipated 401 certs in the project area.

Spokane County WWTP; City of Spokane WWTP and SWP, LLSWD WWTP, Inland Empire Paper NDPES, and Kaiser Aluminum NPDES; Avista Lake Spokane Water Quality Certification

What is the level of public interest and support for the proposal?

This project is of high interest to the Spokane River Regional Toxics Task Force (SRRTTF). The voting members include 5 Spokane River NPDES holders, 2 state and regional agencies, 3 environmental organizations (including the Lake Spokane Association). The advisory members include the USEPA, Idaho, and Washington. There are two tribes that also support toxics reduction in the Spokane River.

Identify existing water quality data that can be used for an analysis, or does new data collection need to occur? Will there need to be a lab budget?

The project will support previous Urban Waters Initiative studies (Liberty Lake and City of Spokane) The project takes advantage of existing air monitoring staff and infrastructure to provide data that could be used to estimate watershed loading.

Identify existing water quality management plans or agreements in the project area. Is there a county PIC program in the project area? Describe the geographic scope of those plans/programs.

The SRRTTF is operating under a Memorandum of Understanding. The SRRTTF, which was established in 2011 is working collaboratively to "characterize the sources of toxics in the Spokane River and identify and implement appropriate actions needed to make measurable progress towards meeting applicable water

quality standards for the State of Washington, State of Idaho, and The Spokane Tribe of Indians and in the interests of public and environmental health."

What are the anticipated impacts to point source permits and nonpoint land uses?
The project will assist the NPDES permittee holders in developing Toxics Management Plans for waste water and storm water discharges.

For Straight To Implementation projects, will you need future monitoring? When?
Click here to enter anticipated future monitoring needs.

What type of funding sources do you anticipate needing? Will it be critical to the implementation of this project?
Funding would be needed for study planning, QAPP development, analysis of the air quality filters for identified toxic substances, and data interpretation/reporting.

If this is a proposal for an Effectiveness Monitoring Study, identify/summarize the implementation actions accomplished in the project area.
Click here to enter accomplishments.

Is there a preferred time period or any deadlines for when the work should be conducted?
Click here to enter a preferred time period or expected deadlines.