

Project Work Plan Memo

Date

TO: Adriane Borgias, Client
David T. Knight, Client Unit Supervisor
James Bellatty, Client Section Manager

THROUGH: Will Kendra, EAP Section Manager

FROM: Martha Maggi, EAP Project Manager

SUBJECT: Project Work Plan: Assessment of PCBs in Spokane Valley Groundwater

Tracker Code: 15-007

Problem Description

The Spokane River Regional Toxics Task Force (SRRTTF) is assessing the loading of PCBs to the Spokane River, with the ultimate goal of developing a management plan to control targeted PCB sources. A significant amount of PCB data have been collected over many years which point to diffuse sources throughout the Spokane River Watershed. More than half of the PCB loading to the river, however, is unaccounted for. The SRRTTF Technical Consultant has identified groundwater contributions of dissolved PCBs, as an important data gap. Therefore, a better understanding of the effect of groundwater on PCB loadings to the river is needed.

In preparation for future groundwater sampling efforts, Ecology's representative on the SRRTTF has requested that EAP perform preliminary research to determine if previous groundwater data and information regarding PCBs are available in areas that could inform analysis of loading to the river. The SRRTTF has identified FY2015 for project planning, and FY2016 for environmental sampling and analysis to possibly include groundwater data collection.

Study Objectives

The project will assist in filling important data gaps that have been identified by the SRRTTF Technical Consultant. The primary study objective is:

- In coordination with the SRRTTF Technical Consultant and the Technical Track Work Group, and based on the established data gap analysis, modeling needs, and monitoring strategy, identify and compile existing data and information resources that could assist with PCB loading analysis from groundwater that have not already been identified and evaluated by the Technical Consultant from other monitoring efforts (such as USGS

Scope-of-Work and Tasks

The SRRTF Technical Consultant has identified data gaps, developed a monitoring strategy, and written a draft QAPP for monitoring activities. The geographic scope of these activities includes the Spokane River upstream of Lake Spokane to the outlet of Lake Coeur d'Alene in Idaho. This current project will cover a similar geographic scope (RM111 to RM 58, the Nine-Mile dam) in order to be useful for future planning. The tasks will focus on but not be limited to areas identified by the Technical consultant as needing further data or information.

Tasks include:

- 1) Identify status of Toxics Cleanup Program (TCP) sites with PCBs that could be contributing to groundwater. There several clean up areas and former clean up areas that could still have residual PCBs that are loading to groundwater. This part of the analysis will develop a spreadsheet that will identify those sites with a summary of their characteristics such as:
 - whether or not PCBs were identified,
 - proximity to river,
 - proximity to groundwater,
 - status of clean up,
 - clean up standards that were used,
 - presence of wells,
 - presence of PCBs in the groundwater (if known),
 - data quality, and
 - recommendations regarding future sampling.

This would involve interviewing the TCP and our Urban Waters personnel plus reviewing documentation regarding the current status of the sites, and preparing a matrix.

- 2) Perform well log review. Identify and review well logs in Ecology database for supply and monitoring wells (in addition to the TCP sites above) that might be appropriate for data mining or monitoring in future efforts. Criteria for inclusion will be developed in consultation with the TTWG, but will likely include the following:
 - wells near identified PCB sources,
 - wells within ½ mile distance of the river,
 - wells adjacent to gaining reaches.
- 3) Research PCB-laden supply well pumps. Determine whether pre-1978 supply well pumps that were fabricated using PCB coolant oil might be in place in the Spokane River reaches of interest. Approach: [?]
- 4) Research Underground Injection Program (UIC) wells in the area. Identify potential past PCB oil disposal areas such as dry wells located at industrial facilities which could be in

Preliminary DRAFT for Technical Track Work Group Review 7/2/2014

hydraulic connection with groundwater. Review UIC program registered wells and consult with local health department.

A short report will be developed responding to the 4 areas of investigation noted above.

Schedule

Product

Final Memo		
Product lead and support staff	Martha Maggi	
Schedule		
Draft due to supervisor	November, 2014	
Draft due to client	December, 2014	
Final report	January, 2015	

cc: Robert F. Cusimano
Melissa McCall (for Activity Tracker)