LWG
LOWER WILLAMETTE GROUP

Chairperson: Bob Wyatt, NW Natural
Treasurer: Frederick Wolf, DBA, Legacy Site Services for Arkema

October 12, 2015

Kristine Koch
U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue, Suite 900, M/S ECL-115
Seattle, WA 98101-3140

Re: Fate Model Transfer to EPA (Lower Willamette River, Portland Harbor Superfund Site, USEPA Docket No: CERCLA-10-2001-0240)

Kristine:

As requested, we have sent to Earl Hayter two hard drives containing QEAFATE model inputs for the calibration and future projection simulations presented in the LWG's 2012 Draft Feasibility Study Report. The files include 42 simulations for the 7-year model calibration period (i.e., 14 contaminants times three simulations for each contaminant [base case, lower bound uncertainty, and upper bound uncertainty]), and 308 simulations for the 45-year future projection period (i.e., 10 contaminants, 11 alternatives, and three simulations for each alternative and contaminant [base case, lower bound uncertainty, and upper bound uncertainty]).[1]

The hard drives contain one folder for each unique simulation. The fate model calibration and projection simulations are conducted through a series of monthly sub-simulations that are controlled by a series of DOS batch files (e.g., a 7-year calibration simulation is broken up into 84 monthly sub-simulations). As such, the folder for each unique simulation contains numerous sub-folders for the monthly sub-simulations.

Hard Drive #1 contains a *ReadMe* folder that contains 1) a Microsoft Excel file "*Run ID Lookup.xlsx*" that describes each run; and 2) the QEAFATE Model User's Manual describing the contents and format of the various model input files.

[1] As described in Section 3.1.3 of Appendix Ha to the 2012 Draft FS, the QEAFATE model was developed and calibrated for 14 chemicals (five PCB homologs, benzo(a)pyrene, naphthalene, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, arsenic, copper, mercury, and bis(2-ethylhexyl)phthalate. 10 of these contaminants were carried through the evaluations of the FS alternatives including the five PCB homologs, benzo(a)pyrene, naphthalene, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT. Uncertainty simulations were presented in the 2012 Draft FS for all of these contaminants except naphthalene.

If you or Earl have any questions regarding this transmittal or the model inputs please contact Mike Werth or Kevin Russell at Anchor QEA directly.

Sincerely,

Bob Wyatt

cc:

Earl Hayter, U.S. Army Corps of Engineers, ERDC
Karl Gustavson, U.S. Army Corps of Engineers, ERDC
Lori Cora, U.S. Environmental Protection Agency, Region 10
Cami Grandinetti, U.S. Environmental Protection Agency, Region 10
Sean Sheldrake, U.S. Environmental Protection Agency, Region 10
Confederated Tribes and Bands of the Yakama Nation
Confederated Tribes of the Grand Ronde Community of Oregon
Confederated Tribes of Siletz Indians of Oregon
Confederated Tribes of the Umatilla Indian Reservation
Confederated Tribes of the Warm Springs Reservation of Oregon
Nez Perce Tribe
Oregon Department of Fish & Wildlife
United States Fish & Wildlife
Oregon Department of Environmental Quality
LWG Legal
LWG Repository