Review of Candidate Studies to Address Key Unknowns in Mission Reach

- Landside Surface Contamination (combine as 1a and 1b).
  - 1a. Stormwater monitoring of Springfield outfall
  - 1b. Landside contamination monitoring at Jasper-identified hot spots, including sampling of catch-basins
- Landside Sub-surface Contamination
  2. Follow-up monitoring of artesian well PCB concentration
  3. Groundwater quality sampling via piezometers
  4. Further our understanding of groundwater hydrology (applies both to Mission Reach and larger reach between Plante's Ferry and USGS gage)
     - Data mining (including Avista VCP)
     - Consider other sites with MWs for installation of data loggers (opportunistic)
     - Consult with local experts (include info on basalt contact)
     - 'in a perfect world' calculate loading based on gw dynamics and artesian well concentrations
- Legacy Contamination from Upstream Sources
  5. Mapping of the areal extent of depositional areas
  6. Sediment PCB monitoring with higher spatial resolution
     - Trent bridge sediment samples collected by ECY
  7. GW/Sediment sampling – Tailor Mission Reach sampling to potentially support future bioaccumulation modeling. (Sample to determine the cause of elevated benthic concentrations).[Measure PCB in groundwater source and sediment source (consider also sampling biofilm) – ensure data collected will also support a future Bioaccumulation model. WHERE – Mission Reach has sediment].
- Contaminated River Fill
  8. Additional monitoring with greater spatial coverage of artificial fill PCB concentrations
- Buried PCB-Containing Objects
  9. Follow-up on magnetometer anomalies
     i. via video or diver survey to positively identify objects identified by magnetometer
     ii. Sediment or biofilm sampling immediately downstream of objects detected
  10. Follow-up object detection near Trent Bridge
- Multi-purpose Studies
  11. Additional Biofilm Monitoring
  12. More rigorous review of historical land use – Mission Reach
      - Including uses of aroclors, cleanup levels, etc

Commented [LDW1]: Combined as 1a and 1b – phased approach

Commented [LDW2]: Further understanding of GW hydrology in full Reach from Plante's Ferry to USGS – was carried over from watershed wide projects where it was a top ranked project.

Commented [LDW3]: Carried over from bioaccumulation discussion during watershed wide project evaluation – ranked with watershed wide projects

Commented [LDW4]: Discuss how to best move forward with I and ii below.