Project Notes/Log

Gift and Kunal

Research Questions

* Is it safe for gardening?
* Is infrastructure or point source contributing more? If so, how? Why? What can we do about it?
  + Where do we put our energy?
* Not too interested in differences between contaminants.

Priority action Items

* Play around with multiple metals in a model, starting with two or three (KP and GC)
* Figure out how to represent, understand, communicate complex interactions (GC)
* Add pH and EC into the models
* Figure out how to look at multiple rwhi questions simultaneously – maybe just compare p-values
* Look at dimensional reduction methods – PCA to figure out which metals to focus on? (KP)

Regular action items

* MFA with hds info?
* Add pH and EC into all analysis

Double check the following

* Al summary stats, some values might actually be lead stats
  + Why was period:season taken out of the model? It was a better fit, but then period was visualized later?
* Do the control samples fall into PH sampling scheme? Do we exclude control samples that were collected after our project ended?

List of assumptions, data notes

Control Modeling options

* Put all the metals together?
  + Would the different metal scales fuck up the model interactions?
    - Metal:season and metal:community and metal:period and metal:period:season?
* How do we graph complex interactions?

HDS modeling

* How do we rank different hds questions?
  + Can we compare p-values to each other?
* Do we look at multiple metals at once for one hds question at a time?
* Add distance to point source to hds models? Which is more important?