**Bothell Runoff Project – Draft Report Assignment**

Due February 14

25 points

As a result of a collaborative process, the BES 318 class of 2012 has agreed that the following deliverables should be submitted by 2/14/12. These deliverables will serve as a draft report of their research project.

1. Draft Map
2. Observations

Further guidance on what should be included in these deliverables is detailed below.

**Part 1 – the Map**

Each student pair should download a map or aerial photograph that provides full coverage of their field site that they can use for a base map. Unless you are using GIS software, it needs to be in a format that you can open with some software package that allows you to modify images.

Non-GIS folks can generate maps easily enough with Google or Yahoo, but it is not so easy to save them to your hard drive. There are ways to work around that limitation, but the quality of the map or satellite photo will suffer. You can download aerial photographs that will provide coverage of your field site at the following websites:

* <http://gis.ess.washington.edu/data/raster/doqs/seattle.html#1023>
* <http://wdfw.wa.gov/mapping/salmonscape/index.html>

You can generate a pdf of a map or satellite photo, with several other possible additions, here: <http://www.nwmaps.net/>. The map I produced was too low resolution for my liking. The aerial photo was fuzzy too, but serviceable.

If you have a map/photo in pdf format, you’ll want to open it up with Adobe, choose Edit, Take a Snapshot, and click and drag a box over the image. This will copy that boxed portion of the map/photo. Then you can paste that portion of the image into a variety of programs and work with it.

Once you have your base map open in some software like Power Point, Paint, Word, etc., you can add to it. The primary things you will want to add to your aerial photograph/map are symbols that identify the locations of features relevant to stormwater runoff at the site. *Any* of the following features should be included if they are on your site: berms, catch basins, storm sewer drain lines, vaults (that provide some treatment or temporary storage of runoff), outfalls, ditches, bioswales, retention ponds, ponds, streams, and wetlands.

The symbols and colors you use to identify these features should be as close as you can get to those identified in the legend of the aerial photo for the Bothell Landing

Site we visited as a class.

For a final map you will want to add a scale bar. You can hold off on that for now, though you are welcome to add one if you can.

When you have all of the relevant symbols on your map, save it in (or export it as) jpeg (or bmp) format.

Eventually you will want to place your finalized map into a Word document so you can add a title, legend, and caption. You can do that now, but are not required to. In particular, don’t worry about submitting the legend just yet. You have enough to do and we should be able to get Kristin Terpstra to send us a digital version we all can use. And your map will be very crowded if you try to include all that information directly on it. If you do add something to your map that isn’t represented by one of the symbols in the legend that Kristin gave us, and make up your own symbol, then you can discuss that feature in your observations document.

**Part 2 – The Observations**

Along with a jpeg of your map, you should submit a Word document that contains an overview of what you’ve learned about your site. This should include the following:

* Descriptions of all stormwater runoff related features, both man-made and natural.
* GPS coordinates of all stormwater runoff related features. Place these in a table. If you have more than one of any kind of feature, you will need to number them (e.g., catch basin 1, catch basin 2) or provide some other way of distinguishing thme (such as north ditch, south ditch, etc.).
* Particularly worthy photographs from the site.
* A list of all people you’ve contacted in your quest to learn more about the site, with contact information.
* Highlights of what you learned from the owners, managers, employees, residents or neighbors of the property.
* A short summary that emphasizes your key findings, especially of any runoff problems.