

Exhibit G

WSU Extension Comments

Brad Johnson

Subject: FW: critical habitat

From: Lawrence, Timothy [mailto:timothy.lawrence@wsu.edu]

Sent: Wednesday, May 14, 2014 9:30 PM

To: Jill Johnson; Helen Price Johnson

Subject: critical habitat

Commissioners - Mr. Rose asked me to stick around for the discussion regarding critical areas this afternoon. I found the discussion very interesting. I was asked in December to serve on the TAG for this project - but I just could not commit to the 120 hrs of projected time over a 3-4 month timeframe. So I do apologize if I am late in my comments. I have not seen the report I did find the discussion interesting. I congratulate you both for digging deeper to see if there are options or compromise issues. The discussion this afternoon reminded me of time in Ohio working on the Big Darby watershed. Three of my colleagues from Ohio that are ecological engineers developed a very short fact sheet the presents a concept that did work very well for the Darby and other areas throughout the midwest (see link below). So I am NOT saying this is the solution for Island County - but there might be a similar solution that would work here. I am not a fluvial geomorphologist but I do know one at the Vancouver campus of WSU - and I have very close relations with Drs. D'ambrosio, Witter, Ward (the authors of the Ohio fact sheet). So I should be able to help with the discussion if there is interest.

Below is a link to the website that discusses the concept of 2 stage ditches - these systems convey water from ag settings but mimic natural ecological function in terms of water quality and habitat. If you want more information look for the link to a fact sheet for the University of Notre Dame on the left side of the Ohio fact sheet. Mr. Rose also expressed some concerns about forested areas and logging operations - I would be happy to have Kevin Zobrist review and comment on appropriate sections.

<http://agditches.osu.edu/sites/d6-agdrainage.web/files/imce/betterditches-FV.pdf>

Thanks for your support - and please let me know if we can be of service on the critical areas.

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Brad Johnson

Subject: FW: critical habitat

From: Lawrence, Timothy [<mailto:timothy.lawrence@wsu.edu>]

Sent: Wednesday, May 14, 2014 9:49 PM

To: Jill Johnson; Helen Price Johnson

Subject: Re: critical habitat

Also wanted to mention that the City of Columbus developed a "River Rules" ordinance after listening to Dr. Ward concept - rather than developing a arbitrary riparian buffer of 100 ft - the river rules concept allows for greater use of the area - narrowing riparian areas in some areas and expanding them in others - rivers move - meander - more so in Ohio than Washington but riparian areas are not stationary. The idea was embraced by both the development and environmental community. Columbus also went to an open 2-stage ditch system over pipe conveyance system for most of their new development (and daylighting some existing system). It is more economical, sustainable, ecologically appropriate, and with greater carrying capacity (more water moving slower and less flooding). So there are other ideas out there.

<http://ohioline.osu.edu/aex-fact/pdf/AEX44502FloodplainsandStreamwaySetbacks.pdf>

The "best available science" really depends on your discipline or perspective.

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