Tuesday, 2 April 2019, 8:30am

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**SWATeam Water/Stormwater Minutes**

Present: Rabin Bhattarai, Eliana Brown, Arthur Schmidt, Colleen Williams

I. Final notes on iCAP evaluation: “Inventory and benchmark campus’ existing landscape performance by FY17”

A. Additional comments about the objective: Needs support from outside of team

B. A student in CEE is working through an REU (Research Experience for Undergraduates) to identify

infrastructure that may be eligible for stormwater fee credits

1. Infrastructure observed so far seems to not have been designed for stormwater credits, which

would account for hundred-year events

2. Champaign’s guide of .2 cfs may not be achievable without removing significant amounts of pavement

a. Reference to Church of Peace v. City of Rock Island: a payment to a government is considered a fee if voluntary

b. A fee would not be voluntary if declination of payment is not achievable

c. Could achieve with large enough storage, although campus seems more interested in underground storage than surface, which would be more difficult to maintain

3. Urbana’s guide is different from Champaign, might be more feasible

4. May be useful to note how pumps at IGB (Institute for Genomic Biology) work

C. Action: submit iCAP evaluation

II. Recommendations work

A. A push for Illinois Plumbing Code allowances for water reuse would take more research and knowledge from other staff

1. Efforts in Chicago are leading (stormwater improvements are often pushed first in this city), but difficulties are occurring likewise.

B. An app to visually determine what infrastructure needs the most work on campus, similar to SeeClickFix in Champaign

1. A summer intern will be able to work to find where stormwater infrastructure fails to handle floodwater, although the observations are most needed in the rainy seasons

2. Crowdsourced reporting of drainage issues would be a feasible recommendation

3. Timestamping/geotagging would be important features

C. Addressing campus’ emphasis on underground stormwater storage: recommendation for feasibility study comparing surface-level to underground infrastructure

1. For now, surface-level maintenance, such as that of the Red Oak Raingarden, is largely volunteer work

2. Study would involve life cycle assessment and compare costs and benefits of underground versus surface infrastructure built for stormwater fee credit

D. If time allows, exploration of multi-purpose roofing could be done; solar panels and green roofs do not need to be considered as mutually exclusive but currently are

1. Current green roofs have limited access for students; faculty can bring students

E. Action: initiate drafts of recommendations, ask members not present for feedback

III. Student involvement in SWATeams

A. Note that student roles on SWATeams are not always clear unless student member comes in with experience in other campus organizations

B. Students might be able to be involved if SWATeams came up with educational materials for new students on iCAP objectives and campus sustainability.