

From: Liggett, Betsy Jo

Sent: Tuesday, October 19, 2021 3:01 PM

To: Zhang, Yuzhe

Cc: Hu, Jie; Schmidt, Arthur R; Lewis, Brent C ; Ruhter, Colleen; White, Morgan; Liggett, Betsy Jo; Williams, Isaac R; Welch, Ryan

Subject: RE: Looking for campus rain work data...

Thank you Art for helping answer question #1.

In regards to #2, Facilities & Services does not have a green infrastructure location map. Planning currently helps maintain a list, Brent is this a shareable resource?

In regards to question #3:

- Facilities and Services Utilities & Energy Services Division told us in a different email string that they do not track a detailed breakdown of how much water the campus uses/pays for specifically for irrigation.
- Facilities & Services Grounds department may be able to help with turf irrigation locations (Isaac or Ryan?).

· In regards to the “quality standard of irrigation water” I am not aware of any Illinois Environmental Protection Agency (IEPA) Clean Water Act “standard” other than the general thou shall not pollute, only non-polluted water to drains, etc. Irrigation installers must be certified with the Illinois Department of Health (IDPH) so the standard may lie with them. If Ryan or Isaac are not aware of any related “standard” I can research the IEPA and IDPH website rules more later this week or early next after our [Champaign County Stormwater Conference - CHAMPAIGN COUNTY STORMWATER PARTNERSHIP \(ccstormwater.org\)](#) conference is complete.

- My co-worker Colleen also came across the attached water reuse handbook from the City of Chicago that contains some information and recalls a similar project at the Danville high school practice field so these are two additional resources you could use.

Thanks!

Betsy

BETSY J. LIGGETT, MS

Coordinator, Special Programs

University of Illinois at Urbana-Champaign

Facilities & Services

Safety and Compliance

Under the Illinois Freedom of Information Act any written communication to or from university employees regarding university business is a public record and may be subject to public disclosure.

From: Schmidt, Arthur R

Sent: Tuesday, October 19, 2021 1:20 PM

To: Zhang, Yuzhe; White, Morgan; Lewis, Brent C; Liggett, Betsy Jo; Ruhter, Colleen

Cc: Hu, Jie

Subject: RE: Looking for campus rain work data...

Hello, Yuzhe:

Unfortunately, runoff is a quantity that varies with many factors. In practice, the watershed that contributes runoff to a selected location is identified based on topographic contours and storm sewer maps. While there are some straight-forward computations that can be used for relatively simple, homogeneous watersheds, typically a numerical model will be developed for the selected watershed. This model will use the design rainfall as an input and calculate the resulting runoff.

The U.S. Geological Survey has developed a statistical tool that can provide predictions of the peak discharge from various storms for locations on streams. This may be helpful to you.

Hope this helps.

Art Schmidt

From: Zhang, Yuzhe

Sent: Tuesday, October 19, 2021 11:19 AM

To: White, Morgan; Lewis, Brent C; Liggett, Betsy Jo; Ruhter, Colleen

Cc: Schmidt, Arthur R; Hu, Jie

Subject: 回复: Looking for campus rain work data...

Great, thank you!

Yuzhe

发件人: White, Morgan

发送时间: 2021年10月19日 0:00

收件人: Zhang, Yuzhe; Lewis, Brent C; Liggett, Betsy Jo; Ruhter, Colleen

抄送: Schmidt, Arthur R ; Hu, Jie

主题: RE: Looking for campus rain work data...

Hi Yuzhe,

I am adding Betsy Liggett and Colleen Ruhter to this email string. They are pretty busy this week with the Green Infrastructure Conference scheduled for Wednesday. Please sign up for it at [Champaign County Stormwater Conference - CHAMPAIGN COUNTY STORMWATER PARTNERSHIP \(ccstormwater.org\)](http://ccstormwater.org).

Thanks,

Morgan

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MORGAN B. WHITE

Acting Director of Capital Programs

Associate Director of F&S for Sustainability

Facilities & Services | University of Illinois at Urbana-Champaign

From: Zhang, Yuzhe

Sent: Monday, October 18, 2021 11:39 PM

To: Lewis, Brent C

Cc: Schmidt, Arthur R ; Hu, Jie ; White, Morgan

Subject: Looking for campus rain work data...

Hi Brent,

I am Yuzhe, a master student of landscape architecture and sustainable urban design, and I am the team leader of the Master plan team in EPA Campus Rainwork Challenge this year. We are looking for some data for our calculation. Since you are the campus landscape architect, you may know some data we need.

1. Campus storm peak runoff: We are looking for the quantity and quality of peak runoff of watersheds in the Champaign-Urbana area. And the research shows there's stormwater runoff from Champaign to Urbana, which will go across the campus. Do you know the water amount of that? For quality, how can we find the data of contamination index of runoff, (such as dissolved toxin density) so that we might use it for future irrigation?
2. Existing Green Infrastructures: Do you have a map showing the on-campus rain managing facilities (e.g. red oak rain garden)?
3. Turf lawn irrigation: The campus is using portable water for turf lawn irrigation. Do you have a map showing the area of the turf lawns irrigated by portable water? What is the quality standard of irrigation water? What are the water consumption amount and the expense of the irrigation per day?

I really appreciate it if you know the information or you can turn to someone who might know this. At the same time, we're searching information on our own as well. .

Thank you,

Yuzhe Zhang