SWATeam Meeting

Location: NSRC Room 358

Date: November 4th, 2016 at 4:00 p.m.

Members Present: Arthur Schmidt, Keith Erickson, Nandakishore Rajapolan, John Berens, Rabin Bhattarai, Carley Meeks

Minutes:

* green facilities standards
	+ standards that apply to water are on the Water team's box account
	+ documents:
		- water distribution systems
		- storm water drainage systems
		- sanitary sewer systems
		- irrigation systems
		- storm sewage systems
		- plumbing equipment insulation
* SWATeam recommendations:
	+ BIF gray water metering
		- recommend that water use in the BIF me monitored continuously
		- both total water and amount used by the raw water system should be measured
		- make data available
		- try to get monitoring as soon as possible to quantify it is worthwhile
		- data put on energy dashboard
			* water use
			* potential for saving from raw water use
		- review of draft recommendation
			* specific actions
				+ clarify the middle paragraph
			* cost: low compared to Design Center recommendation costs
	+ draft recommendation for Design Center
		- recommend infrastructure be put in place for raw water piping
		- design alternative if enough funding
		- recommend that they build infrastructure for future use
		- potential and opportunity
		- investment for future
		- not that much more to add piping
		- water rates are unknown
		- Impossible to put piping in once building is finished
		- positions us to better handle the future
	+ Last springs studies
		- Prioritize
		- Cooling water in best shape
		- Talk about next week
* Facilities Standards
	+ change to become more sustainable
	+ low flow fixtures

**DRAFT OF RECOMMENDATION**

**SWATeam Recommendation**

Name of SWATeam: Water and Stormwater

SWATeam Chair: Art Schmidt Date Submitted to iSEE:

**Specific Actions/Policy Recommended (a few sentences):**

Monitoring the water usage in the Business Instructional Facility (BIF). Specifically, both the total water use and the amount of water used by the *raw water* system should be measured and the data made available to the campus community.

BIF is unique in that it was constructed with a separate *raw water* system that conveys non-potable water to be used for purposes such as flushing toilets. While the system is in place inside the building, it was never connected to an outside source of non-potable water. Use of non-potable water for purposes such as toilet flushing, landscape irrigation, cooling, etc. is recognized as a sustainable practice (e.g., Asano et al, 2007; EPA, 2012). Data to quantify the impact this could have on water use at UIUC, however, is largely unavailable. Metering the *raw water* system at BIF would provide data about the temporal total and non-potable water demand at a typical campus class/office building. These data would be valuable to consider whether such systems should be considered in future campus construction and renovation.

F&S installed a temporary meter to measure the flow to the *raw water* system and operated this meter for approximately one month (from \_\_/\_\_/201\_ to \_\_/\_\_/201\_), so this recommendation has already been demonstrated to be feasible. However, because building usage is highly variable over the course of an academic year, we recommend that this should be a permanent installation. We also recommend that the data be made available to the campus community to encourage consideration of such water reuse options

**Rationale for Recommendation (a few sentences):**

Based on this information, further studies or projects could be implemented to examine the feasibility and costs and benefits of using recycled water for non-potable uses.

**Connection to iCAP Goals (a few sentences):**

Obtain and publicize more granular water use data by FY16, including water quantity and quality data where available.

**Perceived Challenges (a few sentences):**

**Suggested unit/department to address implementation**:

**Anticipated level of budget and/or policy impact (low, medium, high**): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Individual comments are required from each SWATeam member (can be brief, if member fully agrees):**

|  |  |
| --- | --- |
| Team Member Name | Team Member’s Comments |
| David Douglas |  |
| Keith Erickson |  |
| John Berens |  |
| N Rajagopalan |  |
| Rabin Bhattarai |  |
| Art Schmidt |  |

**Comments from Consultation Group (if any; these can be anonymous):**

**Explanation and Background (can be supplied in an attachment):**