

iWG Assessment

SWATeam Recommendation Ref #: WATER006 – Lot F23 Monitoring

Date of iWG Assessment Started: 06/07/2019

Assessment Completed: 08/08/2019

Original SWATeam Recommendation:

The Water/Stormwater SWATeam recommends that instrumentation to monitor the quality and quantity of runoff from parking lot F23 should be installed in the storm sewer carrying runoff from the lot. AN instrumentation vault was installed at the southeast corner of the lot (where the storm sewer leaves the lot) several years ago, but no instrumentation installed. In order to demonstrate the impact of Green Stormwater Infrastructure (GSI), this instrumentation should be installed and operational for at least one year before GSI is installed on the lot to provide a baseline to compare the post-installation runoff quality and quantity. We suggest a pressure transducer to record continuous water level (providing the flow rate using a calibrated stage-flow rating), a water-quality multi-probe with sensors for: turbidity, nitrate, pH, dissolved oxygen, temperature, specific conductivity, fluorescent dye (which will be used to develop the stage-flow rating). The location would also need a data logger to record the measurements, and auxiliary components such as power supply and shelter.

iWG Assessment of budget and policy impacts (*check one*):

moderate budget and/or policy impact OR major budget and/or policy implications

iWG Routing Need (*check one*):

more detailed study OR transmit recommendation OR forward to Sustainability Council

iWG Routing Direction (*department name, SWATeam, or Council*): Land and Water SWATeam

iWG Recommendation: Identify who would submit an SSC proposal, and who would fund ongoing analysis and maintenance. This could be a group of academic departments and institutes.

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

iWG Member Name	iWG Member's Comments
Ximing Cai (iSEE)	I support this recommendation since the monitoring will both provides information on the water quality impact from the campus parking lot and also supports relevant education and research activities. A group of academic departments and institutes shall decide who would fund ongoing analysis and maintenance and who will take charge of the O&M. I suggest that the Water SWATeam chair will coordinate a meeting including representatives from relevant departments and institutes.
Morgan White (F&S)	It would be good to have this instrumentation as a data source for students, researchers, and practitioners. This would be a valuable resource for using campus as a Living Laboratory and helping students learn about sustainable stormwater impacts.
Alma Sealine (Student Affairs)	I support this recommendation.
Matthew Tomaszewski (Provost's Office)	I support the recommendation to pursue this through SSC. You may want to consider a connection to the Smart Campus Initiative.
Scott Willenbrock (Provost Fellow)	I support this recommendation.

John Dallesasse (Academic Senate)	I support this recommendation.
Joe Edwards (Student Sustainability Committee)	I agree with this recommendation, particularly as it might inform us that we are out of compliance with clean water regulations.
Sean Reeder (OBFS)	I agree with this recommendation but recommend that other sources other than the SSC be considered; i.e., pursuing a research grant to support.
S. Renee Wiley (college-level facility manager)	I support this recommendation.
Joey Kreiling/Jonah Messinger (Student Sustainability Leadership Council)	I agree.

Attach any comments from subject matter experts (with names and roles).