# *Thank you for your commitment to green initiatives at the University of Illinois. One of the ongoing requirements listed in the terms of the funding agreement for your project is the submission of semesterly reports with key information about your project. In addition to this form, please provide additional financial documentation and/or progress photos if available.*

# *Please be as accurate as possible in describing the project (including possible setbacks or challenges in meeting the initial goals of the project). Not fully meeting your project's goals will not disqualify you from making future funding requests as long as your reports are as complete and accurate as possible. If you have any questions, please contact the Student Sustainability Committee, at* *sustainability-committee@illinois.edu**.*

**Project Name:** Geothermal exchange for greenhouses at UIUC Woody Perennial Polyculture Research Site

**Date of Report Submission:** 12/14/2018

**Project Purpose:**

The proposed project will involve the design, construction, and installation of a geothermal system to heat one greenhouse at the UIUC Woody Perennial Polyculture (WPP) Research Site, located near the southwest corner of Race Street and Windsor Avenue).

**Detailed Accounting of Expenditures to Date:**

$825.54 – Engineering design services by UIUC Facilities and Services (F&S)

$1323.62 – Soil moisture/temperature probe with auger from Fondriest Environmental, Inc. - to be used to measure soil moisture/temperature during winter when greenhouse is being heated by propone – data needed to help design geothermal system for winter 2019/2020.

**Project Progress to Date:**

Project was initially to be designed by F&S, but then moved to a capital project because of complexity. Now F&S retained engineering firm Grumman/Butkus Associates is assisting. Because of the delay bringing retained firm into project, installation of the borefield has been delayed to spring/summer of 2019. The installation could not be completed before January 1, 2019 (start of research project by Dr. DK Lee). Now will wait to install system in 2019 once the growing season starts and the greenhouse is no longer heated.

**Student Involvement and Outreach to Date:**

Frank Holcomb, Ph.D student in Civil and Environmental Engineering has been involved in the preliminary design of the geoexchange field. He attend meetings with F&S and Grumman/Butkus Associates.

**Marketing and Promotion Efforts to Date:**

Project was added to iCAP website.

**Additional Comments:**

None.