

**EE 491 WEEKLY REPORT 3**

**Date: 2/8/2016**

Group number: DEC1602

Project title: Web controlled Smart Drainage and Sub Irrigation Control System

Client &/Advisor: Agri Drain Corp / Prof. N. Bowler

Team Members/Role:

<b>Role</b>	<b>Team Member</b>
Team Leader	Anne Ore
Key Concept Holder	Michael Parker
Webmaster	Griffen Clark
Key Concept Holder	Adam Wolter
Communications Liaison	Rodney Barto

✓ **Weekly Summary (Short summary about what you did this week)**

Most importantly, our team was able to meet with our client and advisor and get essential details about the project (see below). We are also trying to get a license for JIRA software. Atlassian, the producer of JIRA, states there is academic pricing available but our team is not sure how to go about acquiring that and we are looking into it.

✓ **Past week accomplishments (please describe as what was done, by whom, when)**

- ❖ A. Contacted and set up meeting with advisor – Anne
- ❖ B. Contacted and set up meeting with client – Anne
- ❖ C. All team members attended the meetings

✓ **Pending issues (if applicable)**

- ❖ A. Finishing the project plan/specifications
- ❖ B. Sign NDA's for Agri Drain and get Sponsor Form filled out
- ❖ C. Still trying to get a license for JIRA software

✓ **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Anne Ore	Set up and attended meetings	3	3
Michael Parker	Attended meetings	2	2
Griffen Clark	Attended meetings	2	2
Adam Wolter	Attended meetings	2	2
Rodney Barto	Attended meetings	2	2

✓ **Comments and extended discussion**

Our team finally was able to meet with our client and advisor. These meetings were very beneficial and helped us familiarize with what this project is going to entail and what it requires.

The meeting with our advisor, Nicola Bowler, consisted of her explaining her contributions and current work with this project. We also established that she would play a role similar to a project manager and would be included in all of our Agile style meetings. Our team set up a time for these meetings to be every other week at 3pm on Thursday's. Our first one will be February 18<sup>th</sup>.

The meeting with our client, Agri Drain, also included Carey Novak. Carey works with the Center for Industrial Research And Service and is in charge of the Senior Capstone Design projects. Stephen Myers works in the Maintenance and Engineering Department of Agri Drain Corporation and will be our main contact with the company. Stephen thoroughly explained the current hardware the company is using and stated that there were even some areas that they are using these current nodes. He explained with several diagrams that there is going to be one Master Control Station that would communicate to several Drain Sites through a Banner radio. These Drain Sites will have multiple Control Structures that will take a variety of readings that include water

level and nutrient content. The Control Structures will have to react appropriately based on rainfall and ground water levels. Stephen also showed a few Graphical User Interfaces for some existing Controlled Drainage software in order to give our team an idea of what is expected. Norm Muzzy was also at this meeting. Professor Norm Muzzy (ABE) will also be meeting with our team to get us introduced to the parallel project with a team of ABE students on design/prototyping of a new control structure.

✓ **Plan for coming week (please describe as what, who, when)**

- ❖ A. Finish project plan/specification – Whole team
- ❖ B. Sign NDA's – Whole team
- ❖ C. In person meeting – Whole team

✓ **Summary of weekly advisor meeting (if applicable/optional)**

See above.