



Water Innovation Network for
Sustainable Small Systems

A National Center for Innovative Small Drinking Water Systems

B2: Simplified Data Entry System for Asset Management Built Off Existing Software

Bruce Dvorak, University of Nebraska,

Steve Wilson, University of Illinois,

Patrick Wittbold, University of Massachusetts,

Center for Educational Software Development at University of Massachusetts,
and

Arthur Astarita, RCAP Solutions



Introduction

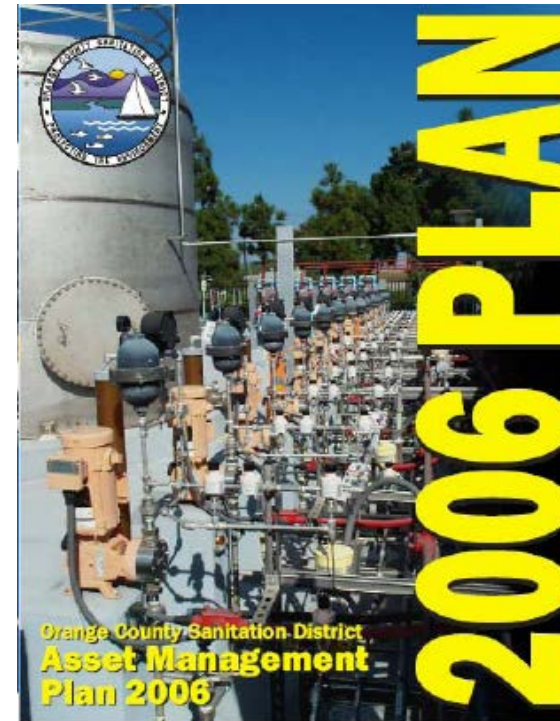
- *Brief Description:* Develop a robust smart phone application to work in conjunction with the Check-up Program for Small Systems (CUPSS) and to allow for on-site utility asset data collection at small systems.
- *Anticipated target utility characteristics:*
 - Small Systems using this free asset management software.
- *Continuum of technology development:*



What Will CUPSS Do?

- Track:
 - Inventory Assets
 - Tasks
 - Finances

- ✿ Develop an individualized Asset Management Plan






My Home



My Inventory



My O & M



My Finances



My Check Up



My CUPSS Plan

Welcome Back Example, Beauty View Acres Subdivision - DW

What would you like to do today?



[Do Some Training](#)



[Enter a New Task or Work Order](#)



[Create or Update My Schematic](#)



[Search Asset and Maintenance](#)



[Create or Update My Inventory](#)



[Enter My Finances](#)



[Print My Check Up Reports](#)



[Work on My CUPSS Plan](#)

Version 1.3.7 December 22, 2011

My Calendar

April 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

My Messages and Alerts

Popup Messages Are On. [Click To Turn Off.](#)

Reminder - Today's Tasks	8
Tasks Currently Past Due	12908
Assets Needing Update	0
Number of High Risk Assets	4

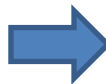


B2 -Project Objectives

1. Create a Smartphone data input application (app) for creating the asset inventory in CUPSS.
2. Publish online case studies on the use of the app based on beta-testing conducted by student workers on several small systems.
3. Convene a workgroup of CUPSS users to develop a white paper that identifies suggested improvements to CUPSS and provides a roadmap to future development of a version of CUPSS that would be network based.



- ### Inventoried Asset List
- Source
 - Well#1
 - pump
 - Wellhouse
 - well property
 - Pumping Facility
 - Main valve
 - Security
 - Chlorinator
 - Treatment
 - Chlorine testing
 - Storage
 - Storage Tank
 - Distribution
 - Water Production Meter
 - Tank
 - Distribution



CUPSS MOBILE

Basic Information

* Asset Name ?

* Location ?

* Asset Category ?

?

?

* Asset Type

Notes



CUPSS MOBILE

Basic Information

* **Asset Name** ?

* **Location** ?

* **Asset Category** ?

?

?

* **Asset Type**

Notes



Asset Inventory

Basic Information →

Status and Condition →

Cost and Maintenance →

Manufacturer and Supplier →



Project Timeline

1. Smartphone data input application (app) ready for beta testing, June 2016.
2. Students at UMass and Nebraska will beta test the app, summer 2016.
3. Prepare online case studies on the use of the app based on beta testing, fall 2017.
4. Revise app, fall 2016.
5. Release app, winter 2016-17.
6. Convening a workgroup of CUPSSS users and prepare whitepaper with a roadmap to suggest future improvements, spring 2017.



Outputs and Outreach

Anticipated:

Case study papers for WINSSS website, late 2016.

Smartphone App, winter 2016-17.

White paper on Cupsss improvements, 2017.

WINSSS or US EPA Small Systems Webinar, 2017

