

Kasey Garrett

Aqua Irrigation

INNOVATIONS IN IRRIGATION

TV Irrigation Conference 2014
Nampa, ID



- **Data Collection for Drip Irrigation systems**
- **Irrigation Water Prefiltering with Cyclones**
- **Irrigation Water Treatment**

Today's System Monitoring



Fully Automatic





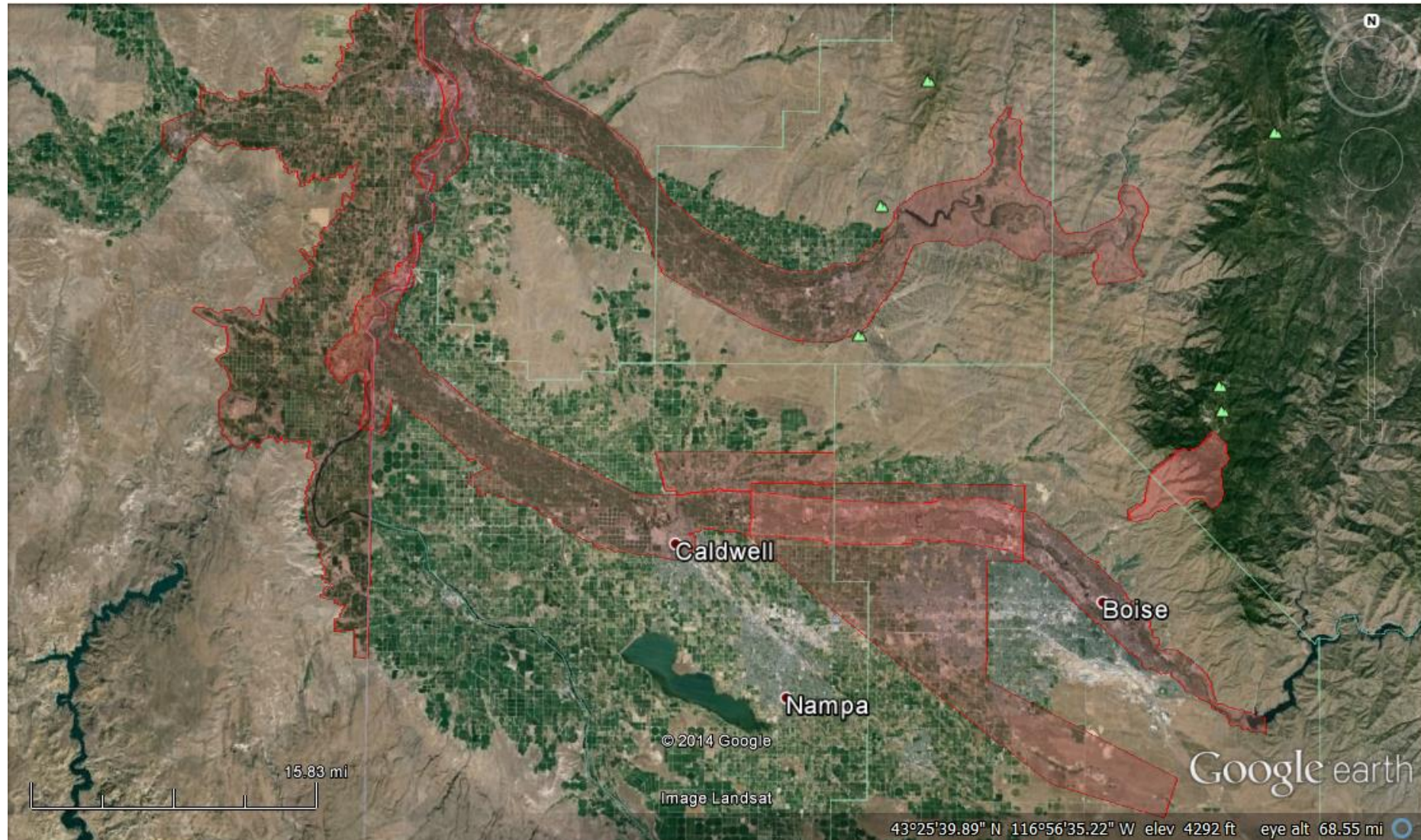
Pump monitoring system from the early 90's!





Drip System Data Collection

LIDAR Elevation Data

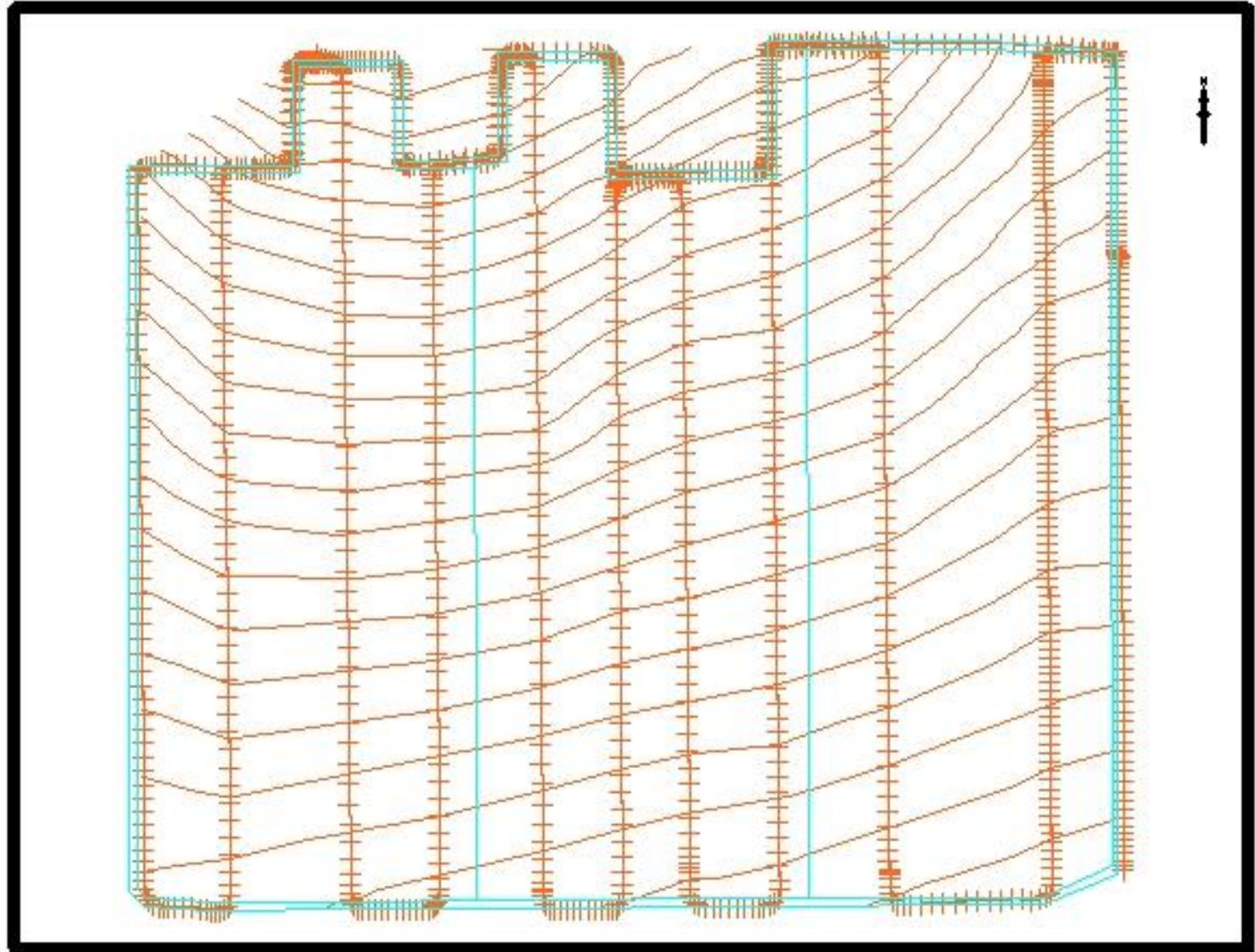


Polaris Ranger Mid-size w/ GPS





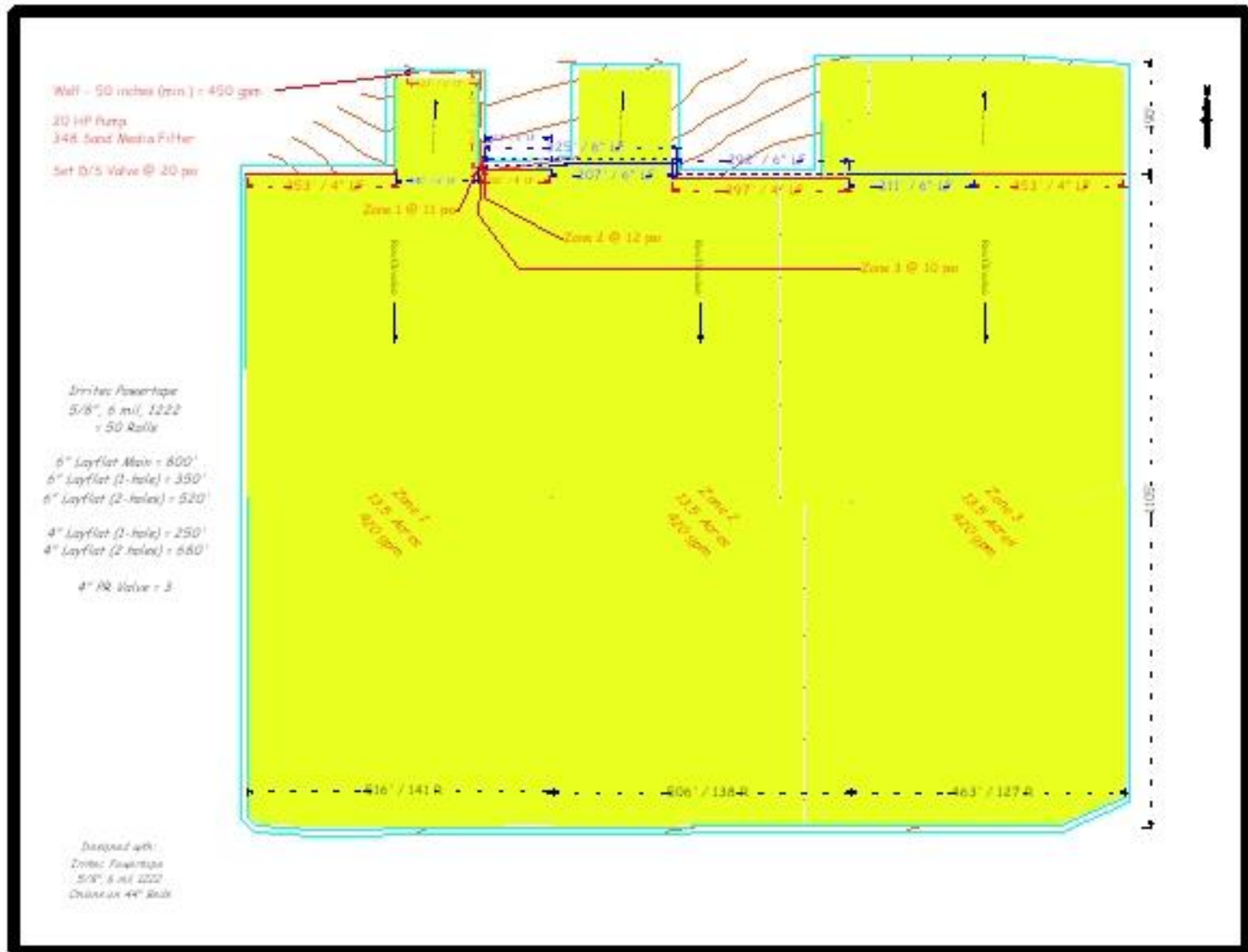
GPS Data Points to create contour lines



GPS Data Points overlaid on map



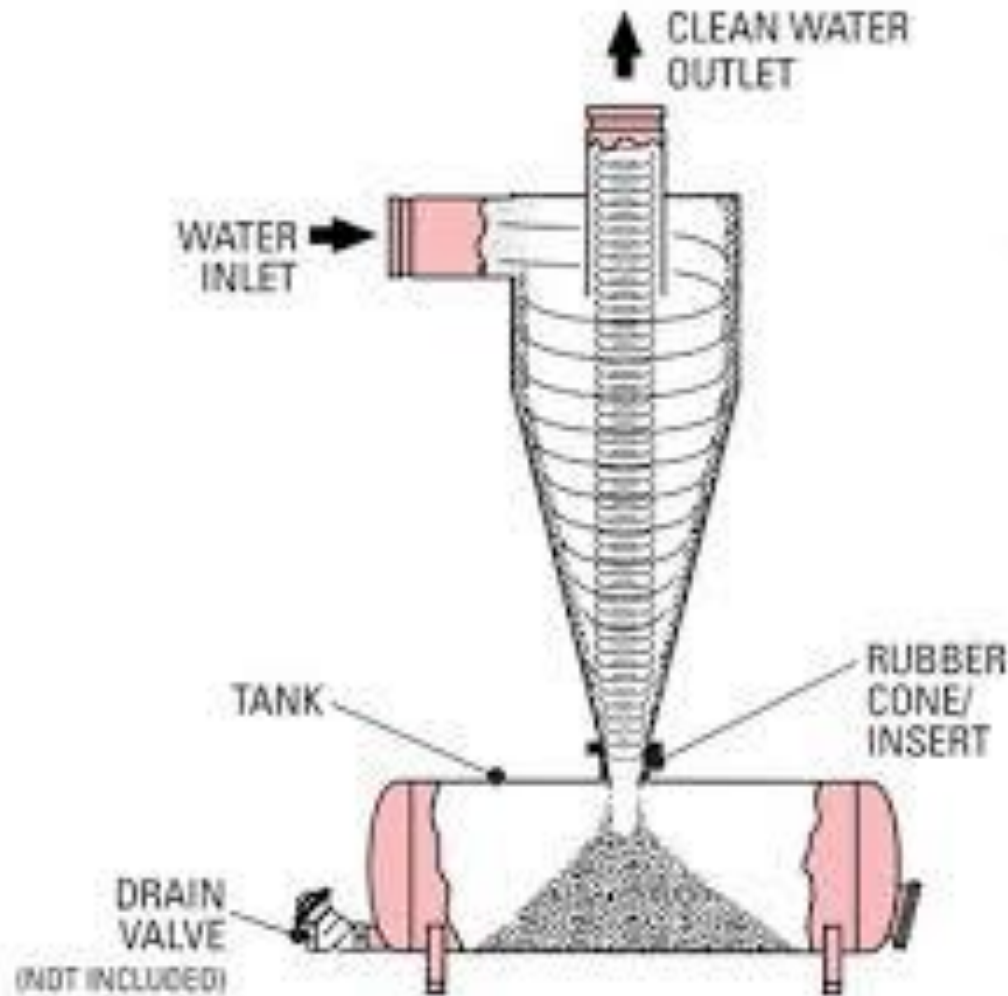
Final Design



HydroCyclones



HydroCyclone Operation





HydroCyclone



HydroCyclone



Sand Filter w/ Cyclone Video



Water Treatment Option

Chlorine Tablet Treatment Systems



Advantages

- **Simple and cost effective way to treat irrigation water**
- **Safe way to apply chlorine**
- **Stay ahead of food safety regulation**
- **Helps prevent issues in drip systems caused by dirty water**

In Regards to Innovation...

- 1. “Yes, I see the value in that innovation. I’d like to be the first to try it.”**
- 2. “I’ll wait to let other people try it and then I’ll consider it.”**
- 3. “I’ll never try it.”**

Which one are you?