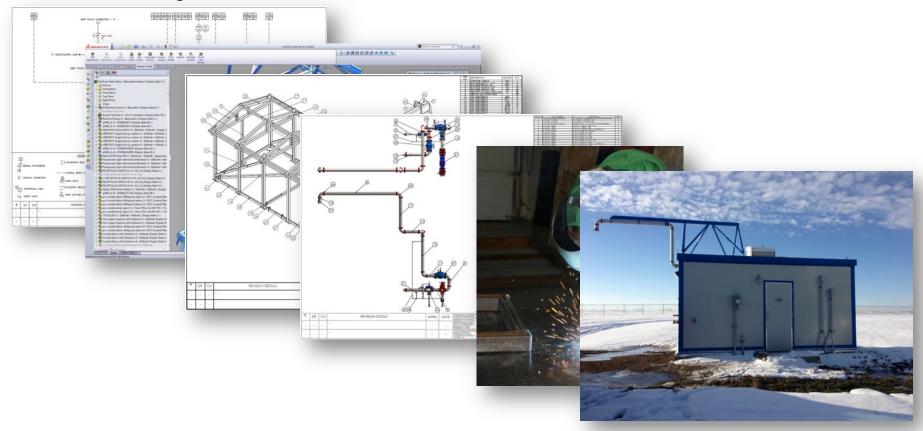


Advantages of Modern Septage Receiving Stations

2016 NEWEA/NYWEA Conference – Michelle Harrod, New England Water Group

What we do

 Design and manufacture turn-key water and wastewater process buildings



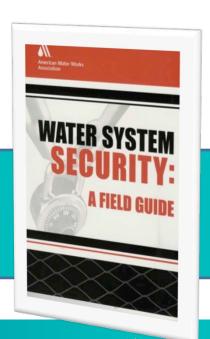


Reasons for managing our systems

WHY MANAGE WATER DISTRIBUTION AND SEPTAGE COLLECTION SYSTEMS?

- Protect Infrastructure (Security)
- Reduce Administrative Burden
- Monitor Waste (Increase Accountability)
- Create Revenue Stream

"If a perpetrator is given access to a fire hydrant, it is the same as, if not worse than, giving him access to your treatment plant" GEORGIA, TEXAS, LOUISIANNA RURAL WATER





Infrastructure Security

- Do you know who is using your system?
- Do you have controlled access to your system?
- Are access points to your system fixed and established?









Protect Infrastructure

- Manholes are not designed to receive septage (grease)
- The public is one of the best policing and enforcement tools



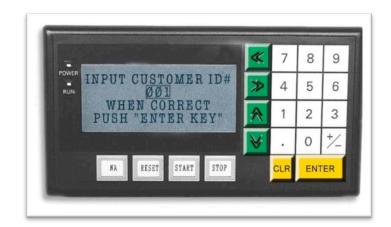






Control Access

- Provide locations for septage disposal
- Provide control to these access points



Before



After



VS

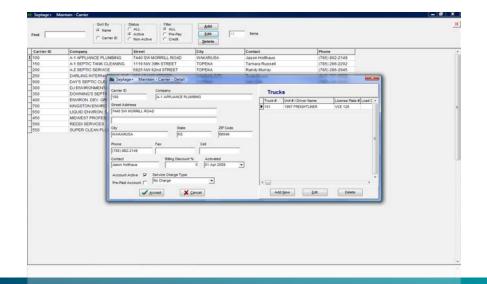
Administration Basics

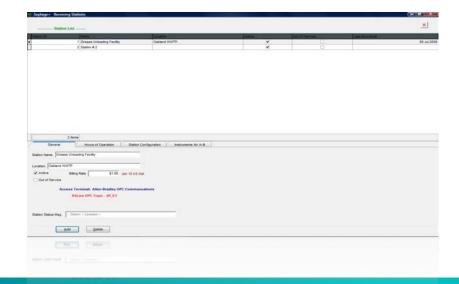
- How do you administer outside users accessing your system?
- What is the network infrastructure if any?
- Do you have an inspection program in place?
- How do your customers pay for using you systems?
- Do you spend more time guessing and chasing than monitoring and reporting?



Administration Basics

- Seamless administration through software based billing and control systems
- Automated monitoring, checking and auditing reduces administrative burden

































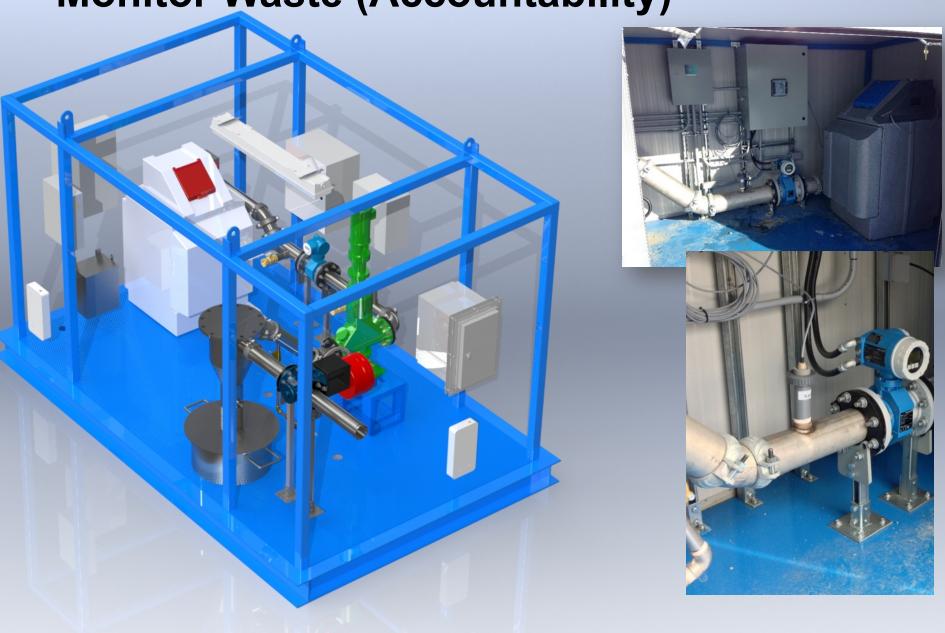








Monitor Waste (Accountability)



Revenue Basics

- What does your infrastructure cost you to install and maintain?
- What does it cost you to operate your system?
- Do you get a return on your investment that pays for operation and future upgrading?



Revenue Scenarios

Sewage Receiving

| Users | Loads / Day / User | Gallons/ | \$ / 1000 | \$ / 5 Day | \$ / Year |
|-------|--------------------|----------|-----------|------------|------------|
| | | | | | |
| 5 | 2 | 3000 | \$20.00 | \$ 3,000 | \$ 156,000 |
| 10 | 2 | 3000 | \$20.00 | \$ 6,000 | \$ 312,000 |
| 20 | 2 | 3000 | \$20.00 | \$ 12,000 | \$ 624,000 |



What kind of septage systems are available?

- Uncontrolled access (manholes or pits)
- Controlled or gate access
- Weigh scale system
- Smart card system
- Keyless / cardless PIN



Uncontrolled access

- System operators directly dump into a manhole or lagoon
- Loads manually recorded with a manifest (sometimes)
- Sometimes samples are taken from the haulers
- Load size is generally estimated by the driver and/or the operator





Controlled or gate access

- System operators control gate access
- Loads manually recorded with a manifest
- Sometimes samples are taken from the haulers
- Load size is generally
 estimated by the driver and/or
 the operator





Weigh scale system

- Loads are weighed on the way in and out to determine volume
- Loads are tracked by a weigh scale operator (manifest) or in combination with the honor system
- Load tickets are left at the gate by the truck operators





Smart card system

May include a PIN number

Cards can be lost, damaged or

de-magnetized



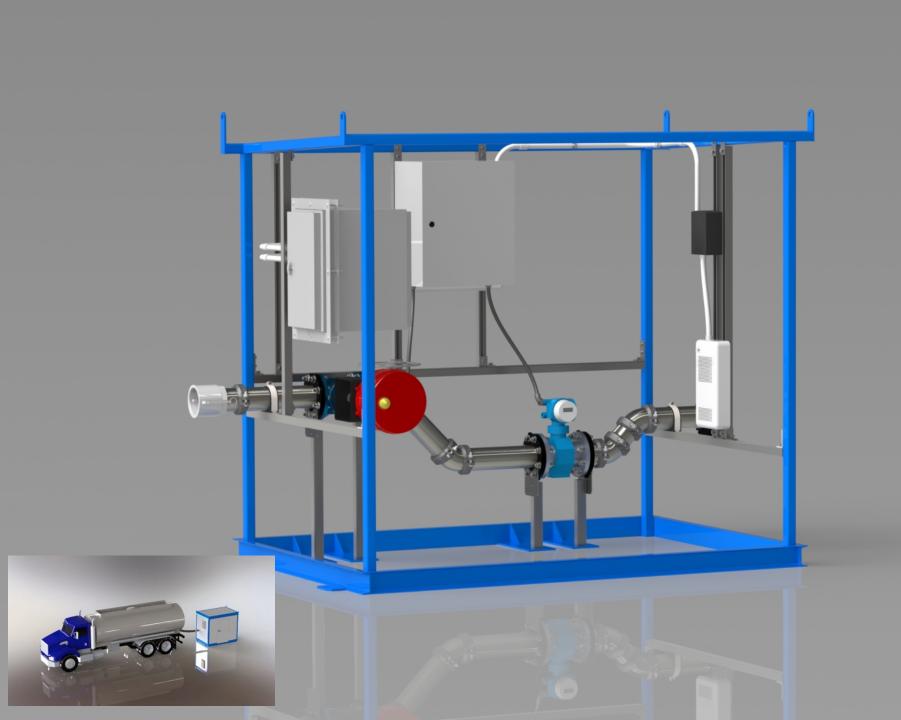


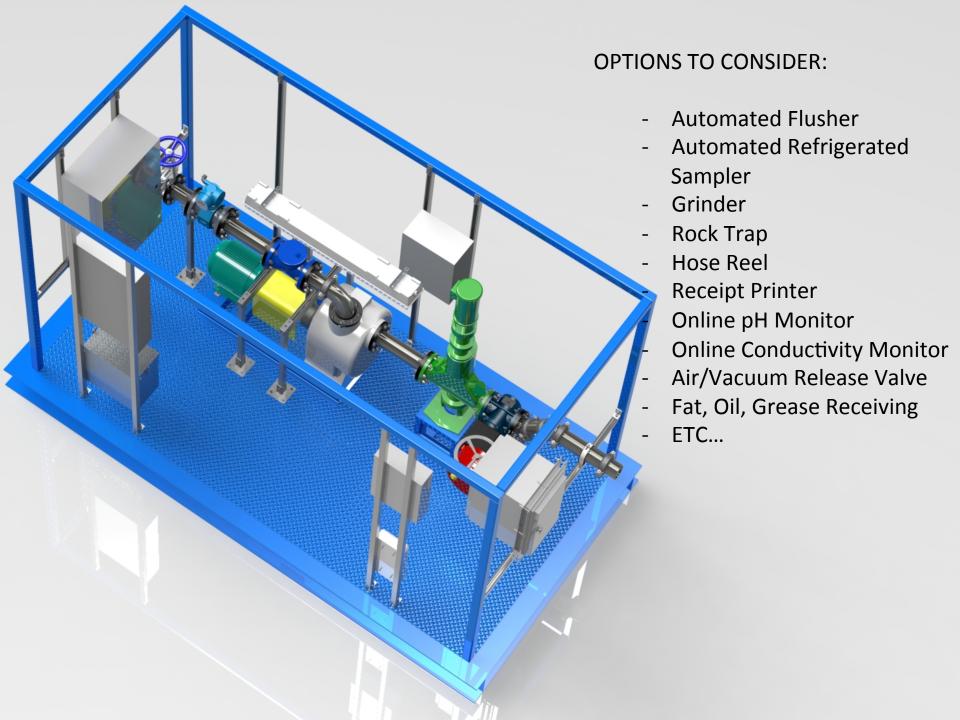
Keyless / cardless system

- Software based with computer in admin office
- Invoices and/or statements are automatically generated
- Controls multiple stations from the admin office
- Instant activation or deactivation of accounts















Quality of materials and standards

- UL Requirements
- CSA Requirements
- NSF 61 Requirements
- AWWA standards
- Local plumbing regulations
- CWB certification



Summary:

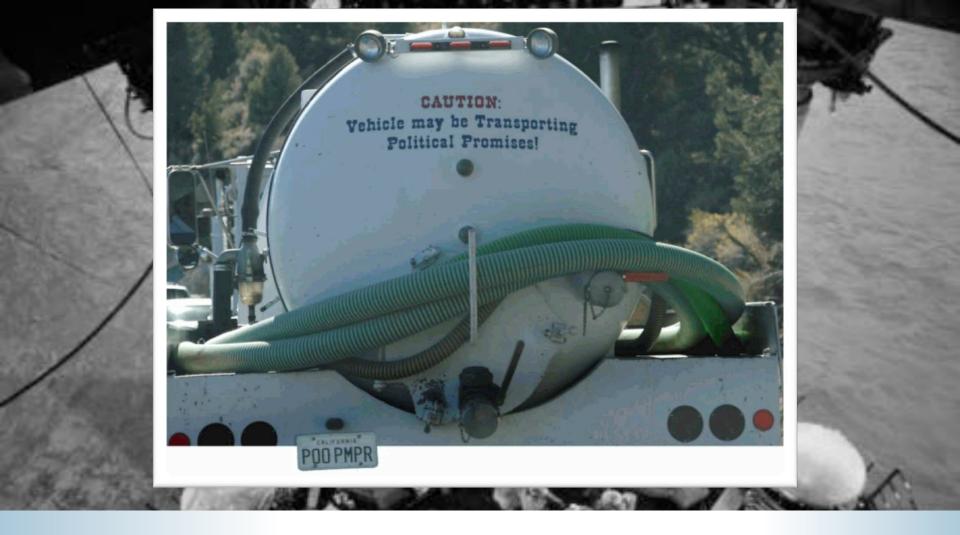
- Determine sizing requirements (flow, volume, frequency of fills or septage disposal, number of fill points / receiving points)
- Location, location
- Renovating an existing facility or building a new one
- Turn key options or component built options



Summary:

- Determine communication path or network
- Establish a central area to control and manage the stations
- Use automation and technology to centrally manage, audit and report on station activity
- Invest in quality products that meet local and national standards





FLOWPOINT ENVIRONMENTAL SYSTEMS

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