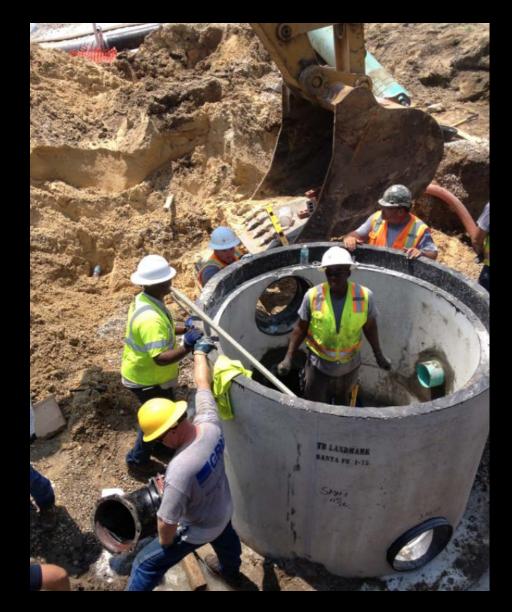
GRU's Wastewater Collection System

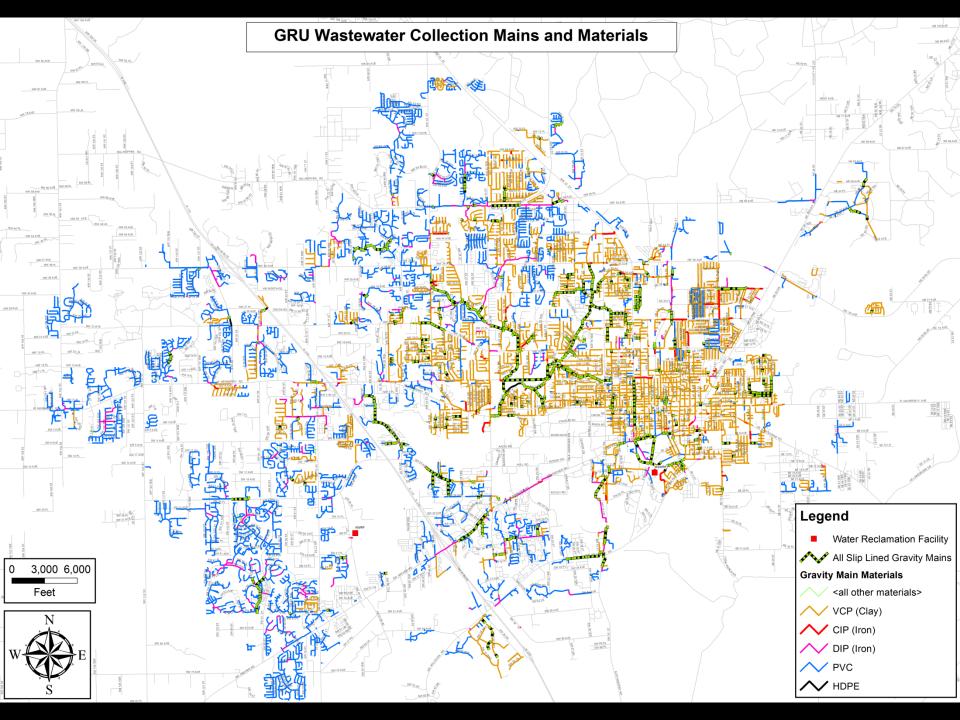


January 19, 2017 Item #160660

GRU's Wastewater Collection System

- 64,000 customers
- 780 miles of pipe
 30% is >50 yrs old
 - 300 miles Clay
 - 56 miles Iron
- 15,300 manholes
- 168 lift stations





FDEP Notification Rule: Sept 26 – Dec 30



- Reaction to significant pollution events
- Encompassed all pollution activities, regardless of size and impact
- Resulted in good discussions on SSO prevention
- Invalidated Dec 30

Sanitary Sewer Overflows

- Common to all utilities expect additional action in next legislative session
- Causes
 - Blockages
 - Fats, Oils and Grease (FOG)
 - Non Flushables
 - Aging Infrastructure
 - Weather
- Reporting all incidents
 ACEPD, ACHD, FDEP



SSO Response - 24/7/365

Response Priorities

- Public health & safety
- Environment
- Property damage
- Service
- Response Techniques
 - Containment
 - Vacuum removal
 - Disinfection
 - Signage
 - Sampling





Emergency Rule Reporting Sept. 26 – Dec. 25, 2016

- Approx 750 Reports
 - Approx 562 SSOs
 - Range: 1 gal to >5 Mgal
- GRU 12 Reports
 - 9 SSOs, residential FOG and toiletries
 - 1 SSO, aging infrastructure
 - 2 Biosolids, malfunctioning valve

GRU is committed to minimize the frequency and impact of SSOs in our system.

SSO Prevention

- Collection System Maintenance
 - -CCTV Inspection
 - -Jetting & Cleaning
 - -Lift Station SCADA
 - -24/7/365 Coverage
- Repair & Replacement



- Replacement or Lining of Pipe & Manholes
- -Lift Station Maintenance

SSO Prevention

- Design Standards for New Facilities
- Inspection of New Facilities
- Customer Education
 - Commercial FOG
 - Residential FOG & Non Flushables
- Storm Response Plan

Think before you put it IN THE SINK

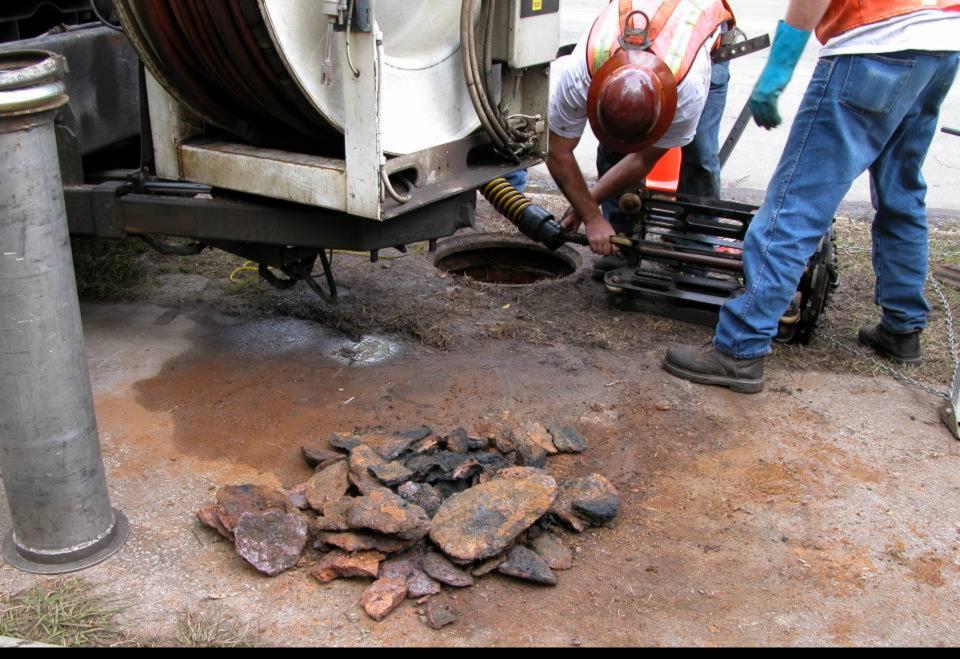
Don't pour FOG (fat, oil or grease) down the drain.

FATS. OILS. GREASE. PATS. OILS. GREASE. DON'T POUR FOGS DOWN THE DRAIN! POUR INTO a Can. POUR INTO a Can. POUR INTO a Can. Cover with this lid. Cover with this lid. the lid, toos the can



CCTV for Pipe Line Inspection





Tuberculation Removed with Hydraulic Chain Cutter

Slip Lining

Manhole Rehab: Before and After

FY 2016 Program KO – 315 MHs FY 2017 YTD – 183 MHs



GRU's Wastewater Collection System

Activity	Monthly Est	Annual Avg
Main Line Stoppages	6	72
Service Stoppages	56	672
CCTV	38,000 LF	456,000 LF
Cleaning	43,300 LF	519,600 LF

- Slip lined to date 43.9 miles
- Est \$4M/yr for WWCS Capital
- \$516,500 (CY 2016) for pipe inspection, cleaning & stoppages

GRU's Commercial FOG Program

- GRU Ordinance & Design Standards
 - Environmental Programs Coordinator
 - 2 TSS III Inspectors

Grease Traps:	In Ground	Under Sink	Total
Food Service Establishments	436	160	596

This is a combined effort. GRU has a big part and our customers have a big part.





Tony Cunningham and Jennifer McElroy: Think before you flush

Friday Posted Jan 6, 2017 at 2:00 AM

By Tony Cunninghamand Jennifer McElroy Special to The Sun

Residential Outreach



GAINESVILLE REGIONAL UTILITIES

Water/Wastewater Department

Dear Valued Customer,

Thank you for being a GRU water/wastewater customer. We are distributing educational material on proper grease disposal because a recent wastewater spill in your area was caused by residents pouring grease down sink drains. We need the help of all of our customers to keep our sewer system running smoothly.

Common sources of grease are lard, oil, shortening, butter and margarine. When these items are poured down the drain, they harden and build up in the sewer system, blocking large pipes. When these pipes clog, wastewater cannot pass through, so it spills out onto the ground. Raw sewage can be harmful to humans, pets and our local ecosystem. Wastewater cleanup and repairs are very expensive. Please help us protect your neighborhood and keep costs down by following these simple steps:

- · Don't pour fat, oil or grease down sink drains or into the toilet.
- · Put fat, oil and grease into a container and discard in the garbage.
- Wipe cooled oil and grease off dishes and pans with a paper towel and put it in the garbage.
- Scrape food scraps from di

In this packet we have included a collect fat, oil and grease in a ca soup can. Discard the can once it **IN THE SINK**

Thank you for helping us protect appreciate your cooperation. c Don't pour FOG (f gru.com/fog for more information grease) down the

Sincerely,

S Jennifer McElro

Senior Enviror Water/Wast

FATS OILS GREASE DON'T FOUR FOR SOMM THE DRAM - 9-OUR INTE ORAM - 9-OUR WITH BHI BHI Ones cool, fass the cash Des cool, fass the cash Set save for the save - Set save for the save for the save for the save - Set save for the s YOU





Only flush the 3 Ps

Paper, Pee and Poo

EVERYTHING else belongs in the TRASHincluding "flushable" wipes



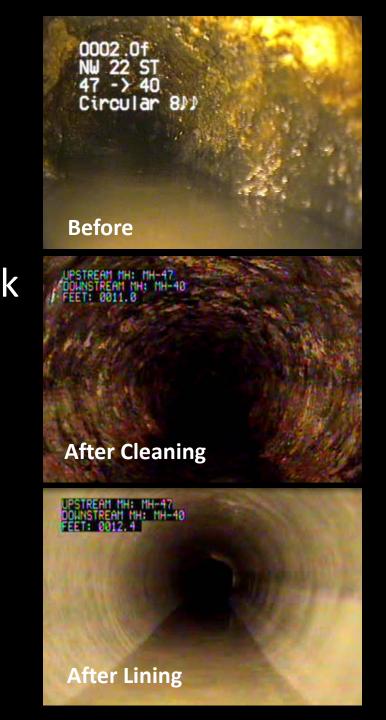
Waste Collection Program Department offers FREE ehold hazardous wastes. Call .alachuacountyhazwaste.us



Path Forward

- Continue System R&R
 Additional contractor work
- System Assessments

 Inflow and Infiltration
 - -SSO Sensitivity Study
- Prioritization of CIPs
- Resiliency Evaluation



Together, we can reduce SSOs.

Recommendation for SSO Reporting Threshold to Commission/UAB

- Use established State Watch Office threshold per 62-620, FAC
- Include City Commission and UAB on FDEP written reports when:
 - 1,000 gal or larger
 - Enters waterbody
 - Impact to public health & safety

Additional Slides

