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Status Report on GRU's Wastewater Collection System

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Why We Are Here

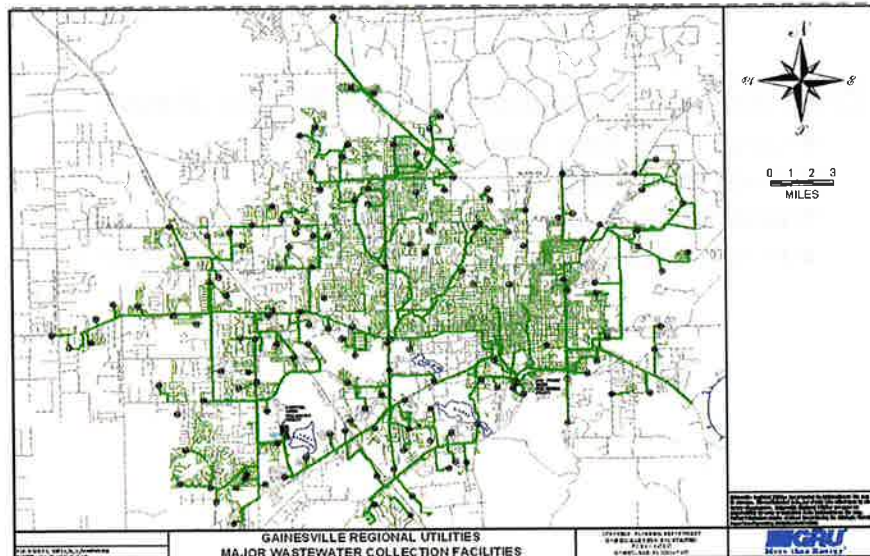
- Wastewater Collection System Project Status
 - Large Force Main Replacement in 04/05
 - Force Main Integrity Testing
 - Residential Grease Education Program
 - Performance Monitoring – Biological Source Tracking

Wastewater Collection System

- ❑ "Most technologies and operating practices are designed to reduce, not eliminate, the discharge of pollutants...because it is generally not feasible to eliminate all discharges." EPA Report to Congress, August 2004
- ❑ GRU Compares Favorably with Systems Nationwide
 - Spill Rate Only 25% the National Average
 - Collection System Inspection/Cleaning 70% Above the National Average
- ❑ Three Important Aspects of Successful Spill Prevention/Response
 - Capital Facilities
 - O & M Activities
 - Spill Response

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Collection System Pipes



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Wastewater Collection System Overview

- ❑ 567 Miles of Gravity Main
- ❑ 127 Miles of Force Main
- ❑ 154 Lift Stations
- ❑ 13,360 Manholes
- ❑ Average Gallons of Wastewater Treated Per Day: 17,483,000
- ❑ Average Gallons of Wastewater Treated Per Year (FY 2004 Data): 5,964,220,000

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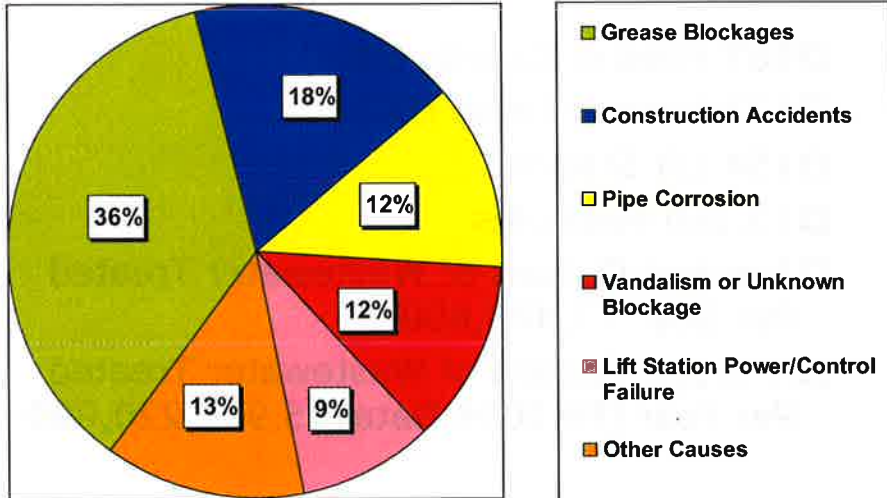
Spill Rate Comparisons

- ❑ National Annual Average of Wastewater Utility Spills:
7.1 spills/100 miles of pipe*
- ❑ Our Annual Average of Wastewater Spills 2004:
1.7 spills/100 miles of pipe
- ❑ Utility Reporting is not uniform, we report all
- ❑ Our Spill Rate is less than 25% of the National Average

*Source: Water Environment Research Foundation, June 2003

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Causes of Spills



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Wastewater Spill Prevention Programs

New Programs

- Force Main Integrity Testing Program
- Commercial Grease Trap Inspection & Enforcement
- Residential Grease Public Outreach Campaign
- Performance Monitoring (BST)

Existing Programs

- TV Inspection
- Infiltration & Inflow Testing (I & I)
- GIS Asset Management System
- Plan Review and New Development Inspection

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Force Main Integrity Testing Program

- ❑ Began September 2003
- ❑ 1,700 Wall Thickness Test Points Completed
- ❑ 25 Miles of Major Force Mains Assessed
- ❑ Findings:
 - Force Mains in Good Condition
 - Discovered 30 Air Release Valves Requiring Replacement
- ❑ Next: 2nd Tier Force Main Testing



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Grease Trap Inspections



- 682 Total Grease Traps
- 1500 Inspections since 12/2002
- Over 600 Repairs Required



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Residential Grease Outreach Campaign

Trap your grease
year 'round
with GRU's
Grease Trapper



Information Campaign

- 5,000 Grease Trappers
- Local Schools Outreach
- Newspaper Ads
- Radio Spots

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Performance Monitoring



- Routine Creek Samples
- Biological Source Tracking Study
 - Examines the DNA of fecal coliforms to determine animal or human origin
 - Cost: \$300,000
- Partnership with Alachua County Health Department to evaluate septic tanks near creeks

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Capital Programs

- Budget funds for the Rehabilitation of the Wastewater Collection System
 - FY 2004 Expenditures: \$3,507,493
- Examples
 - 34th Street Force Main Replacement
 - Cost: \$3,726,663
 - Hogtown Creek Slip-lining
 - Cost: \$2,654,939 over 11 years (1994-2004)

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Summary

- Continuing Force Main Integrity Testing on Smaller Diameter Force Mains
- Residential Grease Education Program
 - Major Effort Begins this Summer
- Biological Source Tracking Study Complete by end of year
- We continue to Make Significant Investments in Constructing, Operating & Maintaining the Wastewater Collection System

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Questions?
