

# Welcome!

## Community Meeting on the Bolin Creek sewer project

September 29, 2010



A public, non-profit agency providing water , sewer and reclaimed water services  
to the Carrboro-Chapel Hill community

# Project Description

- Purpose: Increase capacity and maintain the structural integrity of our sewer serving part of the Bolin Creek drainage basin in order to:
  - help minimize the risk of sewage overflows,
  - reduce the amount of stormwater and groundwater that enters our sanitary sewer system, and
  - meet future sewer service needs
- Install ~6,200 feet of 30-inch diameter iron pipe to replace existing 15-inch and 18-inch pipes
- Replace ~2,500 feet of old drinking water pipe in Umstead Drive with new 6-inch diameter iron pipe

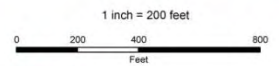
# Project Team

- Stuart Carson, P.E. – OWASA Project Manager
- Darren Berger – OWASA Assistant Project Manager
- Erika Bailey, P.E. – HDR Project Manager
- Mike Benchich, P.E. – HDR Project Engineer
- Scott Maxson – HDR Inspector
- David Israel, P.E. – Geotechnologies, Inc.
- Ronald Crowson, CPG – Geo Solutions Limited, Inc.

# Project Location



- Legend**
- |              |                 |
|--------------|-----------------|
| <b>Pipes</b> | <b>Manholes</b> |
| Existing     | Existing        |
| New          | New             |
| Abandon      | Abandon         |



**Orange Water and Sewer Authority  
Bolin Creek Interceptor - Phase III**

**Community Meeting  
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# Project Location (continued)

The sewer route takes into account the following:

- Environmental costs – environmental impacts (water quality, stream bank/channel conditions, and site restoration)
- Social costs – impacts on the local residents and the larger community (emergency services, vehicular/pedestrian access, and public services (utilities, bus, trash, postal, etc.))
- Operating feasibility – we chose a route that enables us to operate the sewer with natural gravity flow (because sewage pump stations require power and maintenance and are subject to malfunctions)
- Financial costs – cost is always a factor, but for this project we chose the route with the least environmental impact

# Project History

- 1999 – an inflow/infiltration study indicated that the existing interceptor has structural problems
- 2001 – hydraulic modeling indicated that the capacity of the interceptor needs to be increased
- 2004 – a capacity analysis and planning study confirmed the 2001 hydraulic capacity analysis and recommended that the existing pipe be replaced

## Project History (continued)

- 2005 – we evaluated 4 alternative routes for the sewer
- 2007 – design was completed (construction was initially planned to begin in early 2010 but delayed due to budget concerns)
- 2010 (to date) – we have obtained permits and easements and are advertising for construction bids

# Project Timetable

(SUBJECT TO CHANGE)

- November/December 2010 – award construction contract
- December 2010 through January 2012 – construction (estimated timetable)

# Project Impacts

- Traffic:
  - Through traffic will not be possible 24/7 while work is underway in Umstead Drive work zones
  - Detours will be marked with signs on various streets; bus routes will be affected at times
  - Access to residences in work zones will be temporarily limited
- Noise from construction and expected rock blasting
- Dust and mud

## Project Impacts (continued)

- Some tree removal
- Planned, and possible unplanned, utility service interruptions
- Regular work hours – 40 hours per week, Monday through Friday between 7 a.m. and 7 p.m.

# OWASA Contacts

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Questions and Comments?

