

## City of Cumming Raw Water Intake Cumming, GA



### PROJECT OVERVIEW AND CHALLENGES

The City of Cumming, GA constructed a new raw water intake in Lake Lanier. Bradshaw Construction was contracted to install the 66" steel casing pipe from the on shore pump station shaft to the intake structure at the bottom of the lake. The pump station shaft was constructed by the jet grout method. Bradshaw jacked the casing using a slurry microtunneling machine. The intake pipeline was designed as a "one-pass" system, there was no separate interior carrier pipe. The 66" steel casing pipe was lined & coated with epoxy based materials to withstand corrosion. The MTBM was recovered underwater by divers and hoisted to a barge.



### PROJECT INFORMATION - 465

#### OWNER:

City of Cumming, GA  
Franklin Wagner  
770-205-4220

#### ENGINEER:

Civil Engineering Consultants  
Butch Johnson  
770-977-5747

#### CONTRACTOR:

W. L. Hailey

#### COMPLETION DATE:

6/30/2008

#### GEOLOGY:

Piedmont residual soils

#### EXCAVATION METHOD:

Herrenknecht AVN-1200 MTBM

#### MINING DIMENSIONS:

350' x 66" Ø

#### FINAL LINING:

66" Steel Casing (lined & coated)

#### FOR MORE INFORMATION:

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Refer to Project 465