



Wolf Trap Stormwater Management Pond Study

The County of Fairfax, Virginia found it essential to have design improvements to Wolf Trap Pond 106, an existing regional stormwater management pond located at the intersection of Wolf Trap Road and George Washington Road in Fairfax, VA. The design encompassed the retrofitting of the facility to incorporate Best Management Practices (BMP) and establishing an optimum outlet release rate to minimize both upstream and downstream flooding. Required expertise in hydrologic and hydraulic analysis and in the preparation of design plans for ponds suitable for construction. The project consisted of the following:

- Field investigations
- Surveying
- Preliminary design
- Final design
- Evaluation of existing studies
- FP modeling included dam breach analysis
- Alternative schemes
- Preliminary design report
- Coordinate meeting w/County
- Public meeting
- Location of x-sect's & structures
- Coordinate w/Fairfax Co surveying
- Survey reduction

Environmental, WAFIS and other coastal modeling software was utilized for all coastal flood mapping. All data was output to ATC/INFO for DFIRM generation.