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a Philadelphia District

## **PROJECT FACTSHEET**

### **Section 22 Planning Assistance to States Groundwater Modeling of Gloucester County, NJ**

January 2011

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**CONGRESSIONAL DISTRICTS:** Rep. Andrews (NJ-1)

**APPROPRIATION / PHASE:**  
General Investigations

**BUSINESS PROGRAM:**  
Watershed Planning

**AUTHORITY:** Section 22, Water Resources Development Act of 1974, as amended.

**LOCATION:** Gloucester County, New Jersey

**DESCRIPTION:** Section 22 provides authority for the Corps of Engineers to assist states, local governments, and other non-Federal entities in the preparation of comprehensive plans for the development, use, and conservation of water and related land resources. The Corps of Engineers can provide technical study (not design or construction) assistance. Limited funds are available nationwide; ten million dollars is annually funded for projects nationwide. Section 22 provisions limit funding to \$2,000,000 annually per state. The local sponsor provides half the study cost, and in-kind credit can be applied to 100% of that contribution.

Gloucester County is located in southwestern New Jersey and encompasses an area of approximately 325 square miles. Groundwater is the primary water supply source for the County. The Gloucester County Department of Public Works-Planning Division (GCPD) projects that future growth may require increased groundwater withdraws. Based on 2006 U.S. Geological Survey (USGS) data, approximately 69 percent of the County's groundwater withdrawals are from the Potomac, Raritan, Magothy (PRM) aquifer. Permitted withdrawals from this aquifer have become increasingly restrictive, forcing local planners to seek alternative means to meet growing demand. A plausible alternative to groundwater withdraw from the PRM is pumping from shallower aquifers.

This study will evaluate existing and potential groundwater withdrawals from the aquifers overlying the PRM (specifically the Vincentown and Mt. Laurel/Wenonah aquifers) through the enhancement and application of existing groundwater models.

The study will be segmented in two phases. The first phase will model watersheds near the outcrop of the Vincentown and Mt. Laurel/Wenonah aquifers. It will determine the optimal modeling approach to evaluate system complexities and ensure that the needs of the County are met. Once the best modeling approach is determined, the second phase will model all of Gloucester County and portions of the surrounding counties.

**Section 22 Planning Assistance to States – Gloucester County, NJ (continued)**

**STATUS:** FY 10 funds were used to negotiate a scope of work with the non-Federal sponsor, execute the cost share agreement, and initiate the study. FY11 funds, subject to availability, will be used to execute a cost share agreement and complete Phase 2 of the study.

**FINANCIAL**

<b>DATA (\$000)</b>	Fed	Non-Fed	Total
PAS Study (Phase 1)	40	40	80
PAS Study (Phase 2)	120	120	240

**BUDGET**

<b>DATA (\$000)</b>	Comments	
Thru FY09	0	
FY10	47.5	
FY11	TBD	

**SPONSOR:** County of Gloucester, New Jersey

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