

## CHAPTER 4.E

# WATER SUPPLY

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As discussed in Chapter 3.E, “Water Supply,” for the *Mosquito-Borne Disease Control Program*, the primary sources of the New York City water supply are surface reservoirs located north of the City. While there are some groundwater supplies (only a small percentage of the total), there are locations within New York City, which are dependent upon groundwater supplies.

The Rockaway Peninsula lies over a small portion of the aquifers that feed the groundwater supplies to southeast Queens. A detailed groundwater impact analysis for the *Mosquito-Borne Disease Control Program*, which is described in Chapter 3.E, “Water Supply,” was based on the assumption that up to ten adulticide applications in one year (all of which were conservatively assumed to occur on the same day) would be applied under the *Mosquito-Borne Disease Control Program* at locations that could affect groundwater in Queens. As described in Chapter 4.A, “Framework of the Analysis,” the maximum number of adulticide applications expected in one summer season would be six times for the *Mosquito Population Control Program in the Rockaways*.

Based on the lesser number of applications in the study area expected under the *Mosquito Population Control Program in the Rockaways* (when compared to the maximum number of applications assumed for the *Mosquito-Borne Disease Control Program* analysis) and the results of the potential groundwater impact analysis for the *Mosquito-Borne Disease Control Program* which showed there would be no significant impacts on groundwater supplies from 10 adulticide applications in one day, no significant adverse impacts on groundwater from the proposed *Mosquito Population Control Program in the Rockaways* are expected. 

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