



Photo courtesy of USGS Twitter

Contaminants of Concern

Volatile Organic Compounds

Restoration Project

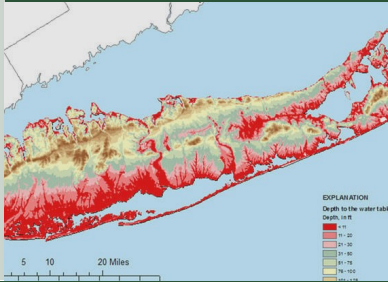
Long Island Groundwater Sustainability Study

- Updated Hydrogeological framework
- Long Island Groundwater Flow Modelling tool

Project Link: <https://www.usgs.gov/centers/ny-water/science/groundwater-sustainability-long-island-aquifer-system>

The project was funded through monies obtained in a settlement reached with Next Millennium Realty, LLC, et al.

Photo courtesy of USGS



Next Millennium/ New Cassel Industrial Area NRD Restoration

New Cassel / Hicksville Nassau County

In 1986, the Nassau County Health Department discovered that groundwater in the New Cassel industrial area was contaminated with volatile organic compound (“VOC’s”). Contaminated groundwater impacted two Bowling Green Water District public supply wells and subsequently treatment was installed on the impacted wells. During the investigation, three separate groundwater plumes were discovered with 13 sites that contributed to the contamination. On Long Island, the EPA designated sole source aquifer system supplies drinking water to over 2.8 million residents. In cooperation with the United States Environmental Protection Agency (“EPA”), groundwater remediation systems have been installed and continue to treat impacts from these sites to the sole source aquifer.

Restoration Efforts

As a focus on the injury to groundwater of the Long Island sole source aquifer system, the restoration involves funding the completion of Phase I and II of the Long Island Groundwater Sustainability Study (“the study”). The study is a NYS lead effort in cooperation with the United States Geological Survey (“USGS”). The study is designed to provide both an updated regional framework – the background information needed, and modelling - the tools required, to guide future decisions such as identifying areas for acquisition and encouraging green use, recharging clean water, reducing pumping in stressed areas to ensure sustainable use, and mitigating negative environmental impacts. The study uses a regional approach to account for the many variables impacting sustainability. The study will ultimately create a Long Island Regional Groundwater Flow modelling tool for use by USGS, NYSDEC, Nassau and Suffolk Counties, and other key water resources management partners in the region to help understand the aquifer system and help manage and plan for its current and future use.