

**Lamont Engineers Implement Autodesk®
Civil 3D® and Autodesk® Vault**



Lamont Engineers
ENGINEERS • PLANNERS • FACILITY OPERATIONS



Grand Gorge Fire Station Project



Mallinckrodt Design Project

→ **THE CUSTOMER**

Lamont Engineers is a consulting engineering firm specializing in civil and environmental engineering and planning for communities in New York . They assist communities with funding procurement, project administration, engineering studies, engineering design, bidding, and construction supervision for projects in municipal planning. This includes water supply, treatment and distribution; wastewater collection, treatment, and sludge disposal; and solid waste management, including landfills.

→ **THE CHALLENGE**

The company strives to deliver better service for their customers and improve their overall efficiency, and wanted to be at the forefront of the latest civil engineering technology. They recognized that the future of civil design was beyond the scope of Autodesk® Land Desktop.

→ **DESIRED OUTCOME**

They wanted to satisfy their client's needs, stay on the cutting edge of advanced technology, finish projects quicker, and reduce costs.

→ **THE SOLUTION**

After careful research, Lamont Engineers adopted Autodesk Civil 3D. "The emerging model-based design tools of Autodesk Civil 3D provided us with a way to make virtually instantaneous changes to designs without sacrificing accuracy. Civil 3D allowed us to do things more efficiently; however, there was a learning curve with the software because it was completely different than Autodesk Land Desktop," stated Project Manager Jim Gillespie. "IMAGINiT Industry Specialist Doug Cummings came on site for a custom training session to get everyone up-to-speed. As a part of IMAGINiT's four phased implementation process, Doug helped us customize the software to meet our company needs and standards. This implementation method was very beneficial to us and allowed us to begin using the software much faster," stated Jim.

→ **ACTUAL RESULTS**

By using the intelligent object technology that Civil 3D provides, Lamont Engineers streamlined their workflows and enhanced their productivity. "We can lay out storm drainage, water, and wastewater treatment systems as dynamic, interactive networks. We especially like the underground piping features and improved usability when editing the network. Now we can take a manhole grip, move it and all related pipes, profiles, and the cross sections update accordingly. That's been a significant advantage for us," added Gillespie.

One of Lamont Engineers' current projects is the Community Wastewater Management Program funded by the Catskill Watershed Corporation. This project focuses on providing wastewater solutions to five communities in Delaware, Greene and Ulster counties in the West of Hudson New York City Watershed. This section of the system provides approximately 50 percent of the City's daily demand for water. "In partnership with New York City, we are faced with many new challenges as we strive to meet goals for water quality, while enhancing and preserving the economy and rural character of local communities," stated Jim. The New York City Watershed is an extraordinarily complex network of reservoirs, lakes, rivers and streams providing safe drinking water for more than nine million New Yorkers. It is one of the largest unfiltered surface drinking water systems in the world.

"We are designing future wastewater and stormwater control programs, one of the highest priorities of the New York City Watershed Protection Program, that will help reduce discharges of phosphorus and stormwater runoff from hamlets into the City Reservoir System," stated Jim. "Lamont uses Civil 3D for carrying wastewater to treatment plants. Sometimes you run into unforeseen events requiring changes, such as property owners who don't want to give an easement, or the location of a line that needs to be changed during field editing. The beauty of Civil 3D is that design objects are related and update dynamically; this allow us to easily update our designs for these type situations," concluded Jim.