

START-TO-FINISH SERVICE ON A CITY'S \$32 MILLION WASTEWATER TREATMENT PLANT

A city contacted us as their existing wastewater plant was extremely overloaded, with frequent OEPA violations.

PROBLEM

- The city was growing at a very fast rate, resulting in overload and compliance issues
- There wasn't enough room to build a new plant at the existing location
- City council needed to understand why expensive new plant was required
- City council needed to find a location to build a new plant and source wastewater treatment equipment
- The location and equipment selected needed to allow for future growth for the next 25 years
- A decision was required on whether to treat and remove phosphorus and nitrates biologically or chemically to meet OEPA requirements
- City didn't want to continue taking sludge to landfill with the new plant

SOLUTION

The EWS team:

- Projected the cost for the project including purchase and plant construction and presented to council for approval
- Selected a site and purchased the property on the city's behalf
- Sourced an experienced engineering firm for the design
- Recommended a process to remove phosphorus and nitrates biologically to meet OEPA requirements
- Recommended a drying process for sludge that made it into a fertilizer
- Prepared the Wastewater Permit to Install (PTI) and plan for OEPA approval
- Project managed and oversaw the build of the new plant, a 2-year process

RESULT

The city now has a wastewater plant to suit its requirements for the next 25 years. They are meeting OEPA requirements, and also recycling sludge into fertilizer with thermal drying. Additionally, as a result of efficient design and equipment, no extra staff were needed, despite the increase in the size of the plant.

