



Location

- City of Ontario, Ohio

Services Provided

- Environmental Engineering Plans and Specifications, Construction Administration

Cost

- \$1.78 million

Size

- 1.2 MG

Schedule

- Professional Services: 2012–2013

PDG Project Manager

- Michael Atherine, P.E.

ONTARIO-ROCK ROAD LIFT STATION EQUALIZATION FACILITY

EQ BASIN AND PUMPING UPGRADES

PDG was retained by the City of Ontario to prepare plans and specifications for an equalization basin at its existing Rock Road Lift Station. The purpose of the equalization is to help eliminate overflows at the lift station resulting from wet weather flows exceeding the lift station capacity. The improvements included:

- 95 ft. diameter, 1.2 million gallon glass coated steel tank with an aluminum dome cover
- Above ground pump station with duplex self-priming pumps to pump flow into the basin
- Floating mixer, motor operated pinch valve to control flow back to the existing pump station
- Standby power generator
- Automatic controls
- 18-inch diameter gravity sewer
- 8-inch diameter force main
- Prefabricated fiberglass building to house the duplex self-priming pumps
- Miscellaneous site work



Project Relevance

- Equalization Basin
- Pump Station
- Controls

Reference

Paul Gleisinger
Sewer Supervisor/Project Manager
555 Stumbo Road
PO Box 166
Ontario, Ohio 44862



Location

- New Lexington, Ohio

Services Provided

- Environmental Engineering, Construction Administration

Cost

- \$1.3 million - Construction

Size

- 2 MG Flow EQ Basin
- 1,300 S.F. Building/Laboratory

Schedule

- Completed: 2006

Project Team

- Steve Wonderly, P.E., Project Engineer
- William Villata, Design Technician
- Emil Diener, Construction Observation

NEW LEXINGTON WASTEWATER TREATMENT PLANT

PDG was the prime consultant for design and construction of New Lexington's wastewater treatment plant. The improvements included a 2 MG flow equalization basin with a 123' X 23' SWD glass-lined bolted steel tank with three floating mixers and one floating aerator; an inlet and outlet flow meter chamber; a 1,300-square-foot administration building with laboratory, offices, restroom and shop; and 400 KW **standby diesel power generator** for the wastewater treatment plant.



Project Relevance

- Wastewater Treatment Plant
- Construction Administration and Inspection

Reference

Scott Bryant, Administrator
 Village of New Lexington
 125 S. Main Street
 New Lexington, OH 43764
 740.342.2177



Location

- Delta, Ohio

Services Provided

- Environmental and Electrical Engineering, Grant Administration

Cost

- \$2.6 million

Project Funding

- \$3.2 million OWDA Loan

Size

- 1,100 SF Admin Building Addition
- 0.725 MGD Average Daily Flow
- 1.5 MGD Peak Capacity

Schedule

- Professional Services 2013
- Construction: 2014

Project Team

- Mike Atherine, PE., Project Manager
- Steve Wonderly, PE., Project Engineer

DELTA WASTEWATER TREATMENT PLANT UPGRADES

PDG was the prime consultant for the planning, design and construction of improvements to the Village of Delta's wastewater treatment plant. Work consisted of new motors, and variable frequency drives and PLC control for the four raw sewage pumps; and a new mechanical fine screen to replace the grinder and masonry building to enclose the screen. We replaced the aerated grit removal equipment with vortex style grit removal equipment, replaced the decanters in the SBR tanks and modified the influent piping to the SBR tanks, and replaced the SBR blowers. Submersible waste sludge pumps were installed in the SBR tanks. Improvements were made to the sludge holding tanks including structural rehabilitation, diffused aeration and new blowers. An ultraviolet disinfection system replaced the chlorine disinfection equipment and a new administration building with a laboratory was constructed.



Project Relevance

- WWTP Upgrades
- Screen Replacement
- New Building
- Grant Administration

Reference

Dan D. Miller, Mayor
 401 Main Street
 Delta, Ohio 43515
 419.822.3190 (voice)
 419.822.3837 (fax)
 mayor@villageofdelta.org



Location

- Grafton, Ohio

Services Provided

- Environmental and Electrical Engineering, Construction Administration and Observation, Start-up Assistance

Project Cost

- \$10.5 million

Size

- 1.5 MGD Daily Capacity
- 4.5 MGD Peak Capacity

Schedule

- 1992-2014

Project Team

- Michael Atherine, P.E., Project Manager
- Jack A. Jones, P.E., Principal-in-Charge
- Douglas A. Nusser, Construction Administration
- Steven R. Wonderly, P.E., Project Engineer
- Daniel L. Knott, P.E., Electrical Engineer

GRAFTON WASTEWATER TREATMENT PLANT IMPROVEMENTS

PDG was the prime consultant for the design and construction of phased improvements to the existing wastewater treatment plant consisting of a four-basin Sequencing Batch Reactor (SBR) type treatment process, cloth disk filter type tertiary treatment system, self-cleaning ultraviolet disinfection system, chemical feed facilities for phosphorous removal, dried sludge cake storage building, PLC based automated control system, demolition and renovation of existing treatment plant components, control building laboratory improvements, diesel engine generator standby power system, influent raw wastewater self-cleaning screen, two 400,000-gallon aerobic sludge holding tanks, computerization of plant controls, 1.5-meter-wide sludge dewatering press, 5 MG equalization basin, and miscellaneous buildings. The treatment plant has a capacity of 1.5 MGD on an average daily basis with a peak hydraulic capacity of 4.5 MGD.

The project also involved modifications to sanitary sewer lines, repairs to manholes and several thousand feet of sanitary sewer extension from 12-inch to 24-inch diameter. The cloth disk filter type tertiary filter system, which is the first system in Ohio, was selected over conventional sand filters because of its compact footprint and ease of operation.



Project Relevance

- WWTP Improvements
- Construction Administration/ Observation
- Building Renovations
- Screen Replacement
- SBR Treatment Process

Reference

David DiVencenzo
President of Council
Village of Grafton
440.926.2401



Location

- Leipsic, Ohio

Services Provided

- Environmental Engineering, Construction Administration, Project Funding

Project Funding

- \$2,378,925 – US Department of Commerce–EDA Grant (50% Funded)
- State of Ohio, Development Services Agency

Project Cost

- \$4,757,850

Size

- 1.5 MGD Daily Capacity
- 3.0 MGD Peak Wet Weather Capacity

Schedule

- 1992–2014

Project Team

- Michael Atherine, P.E., Project Manager
- Steven Wonder, P.E. Project Engineer
- Daniel Knott, P.E., Electrical Engineer
- Michelle L. Hister, Grants Administrator

LEIPSIC WASTEWATER TREATMENT PLANT IMPROVEMENTS

Over the past 20 years, PDG has provided ongoing consulting, design and construction administration services to assist the Village of Leipsic in the continued improvement of its wastewater treatment plant.

Most recently, PDG assisted with the final phase of a three phase improvement project. As part of the third phase, PDG provided planning, design, and construction of improvements consisting of a new head works building, housing four (4) raw sewage pumps, a mechanical self-cleaning influent raw sewage fine screen and vortex-type grit removal system. A fourth sequencing batch reactor (SBR) tank was installed, as well as replacement of SBR equipment in existing tanks along with fine bubble diffuser aeration. A PLC based SCADA system was installed and expansion of the ultraviolet disinfection system and expansion of the existing Administration/Lab building were part of the improvements. The expanded wastewater treatment plant will have an average day design capacity of 1.5 MGD and a peak wet weather capacity of 3.0 MGD. The project included design and installation of a 350 KW diesel-engine generator for standby power system.

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Project Relevance

- Construction Services
- New Building
- Screen Replacement
- Grant Administration
- SBR tank installed, and replacement of existing SBR equipment

Reference

Mr. Tony Schroeder
Wastewater Superintendent
Village of Leipsic
419.943.2009



Leipsic Wastewater Treatment Plant Improvements



PDG assisted the Village in securing funding for the project through federal, state, and private industry sources. The Village obtained a 50% grant (\$2,378,925) from the US Department of Commerce–Economic Development Administration (EDA). The remaining 50% of the project cost was funded by the State of Ohio, Development Services Agency, and ProTec Coating Company to support ProTec’s \$4 million expansion and creation of 100 new jobs.

