



Project Highlights

- Commissioned May, 2012
- Domestic WW, CAS Retrofit
- Permit(s); Discharge
- 10/1/2 (TN/TP/Turbidity)
- Municipal \Rightarrow Stream
- MMF Capacity: 0.75 MGD
- \$9.73/gal
- 1 FTE (Full-Time Employees)

One System, Many Solutions...



"One of the major advantages of **ENVIROQUIP MBR Technology was** the ability to expand the facility within the existing footprint. The other significant advantage lay in the improved effluent quality from the MBR."

Project Overview

System Type(s): Enviroquip ® MBR

Previous Facility Type: Trickling Filter, Sand Filters

Owner: Village of Carrollton

Engineer: CT Consultants

Contractor: Stanley Miller

Operations: Village of Carrollton

Delivery Method: Pre-Selection

Time To Build: 18 months **Total Installed Project Cost:** \$7,300,000

Plant Contact Information: Mike Leslie | cvwater@frontier.com



Description

The Carrollton Wastewater Treatment Plant located in eastern Ohio, was upgraded from conventional activated sludge technology.

After detailed investigations that included site visits to operational facilities to fully understand plant operations, The City of Carrollton indicated that MBR technology was the best option for this application.



Plant Design Information

Fine Screen Type: Band Screen

Aperture or Slot Size: 2 mm

Supplemental Aeration Technology: Fine Bubble, Disks

MBR Blower Type: Positive Displacement

Solids Management Data: Belt Press

SCADA System: Wonderware

Disinfection Method: UV

Process Stages: 3

MBR (Membrane Zone) Design

Filtration Mode: Pumped

of Reactors: 4

Submerged Membrane Unit (SMU): RW400, KUBOTA®

SMU: 16

Design Flux (MMF): 7.51 gfd

Minimum Temperature: 10°C

Peak Factor: 3.35

of Maintenance Cleans: 4