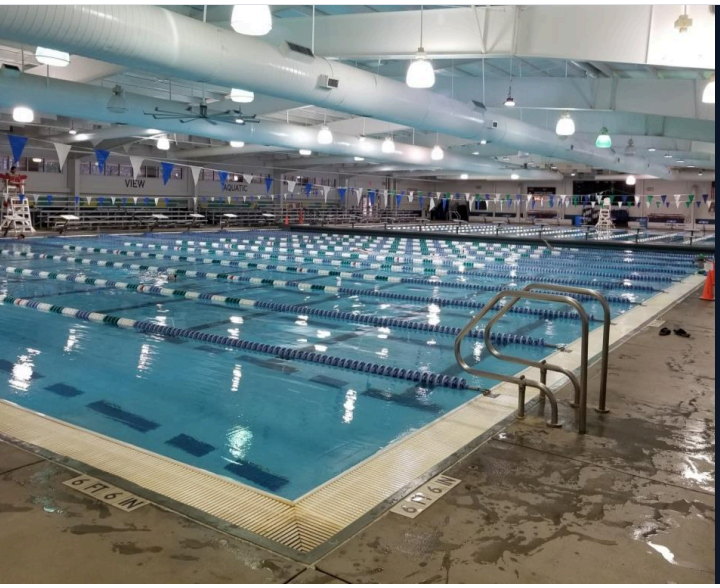


SWIMMING

Mountain View Aquatic Center Case Study Cobb County, Georgia

*Hydro*FLOW® replaced UV secondary disinfection while reducing power costs, chlorine use and backwash time at a public aquatic centre.

93%	135lbs	19%	16x
Yearly Cost Reduction	Reduced Chlorine Demand	Backwash Time Reduction	Lower Operating Cost

⇄ BEFORE & AFTER

BEFORE

- UV system required for 15 years
- High power and maintenance costs
- Backwash times reached almost 8 min

AFTER

- ✓ UV system turned off successfully
- ✓ Power costs dropped significantly
- ✓ Backwash time fell to 6.5 min

OVERVIEW

Mountain View Aquatic Center in Cobb County, Georgia had used UV secondary disinfection for around 15 years to control chloramines and improve air quality. Ongoing UV power and maintenance costs led management to trial Hydropath treatment as an alternative. The evaluation included baseline data collection, a phase using *Hydro*FLOW® alongside UV, then a final phase with UV turned off while the *Hydro*FLOW® unit remained in operation.

⚠ CHALLENGE

The centre needed to reduce UV operating costs without compromising air or water quality.

- UV power and maintenance costs were high
- Chlorine usage peaked at 310lbs per week
- Manual backwashing took almost 8 minutes
- Pressure gauges became clogged during trial

SOLUTION

A *Hydro*FLOW® custom 12″ unit was installed on the recirculating pool system, initially alongside UV and later during operation with the UV system turned off.

UNIT INSTALLED
1x *Hydro*FLOW® Custom 12″

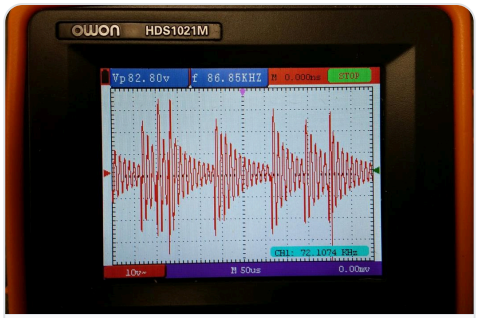
INSTALL LOCATION
Recirculating pool system

EVALUATION PERIOD
Late 2017 to early 2018

SIGNAL VERIFIED
Surge tank, pool, UV and heat exchanger

SITE
Mountain View Site

INSTALLATION
HydroFLOW® Custom 12″



SIGNAL
Signal verification reading

RESULTS

Operation Without UV
UV remained off during trial operation while pool performance stayed stable.

Power Costs Reduced
Estimated yearly power and maintenance cost reduced from $4,701 to $329 yearly.

Chlorine Use Lowered
Chlorine demand trended 135lbs below the baseline high point.

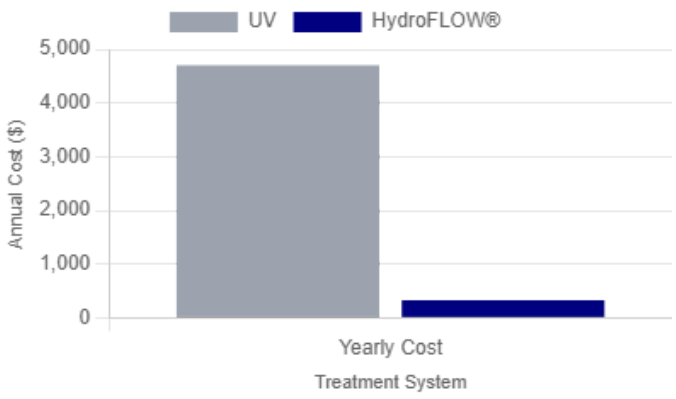
Backwash Time Reduced
Manual backwash time reduced from almost 8 minutes to 6.5 minutes

Water Clarity Maintained
Turbidity remained below 5 throughout the trial phases.

Air Quality Maintained
Similar air quality performance was observed compared with UV.

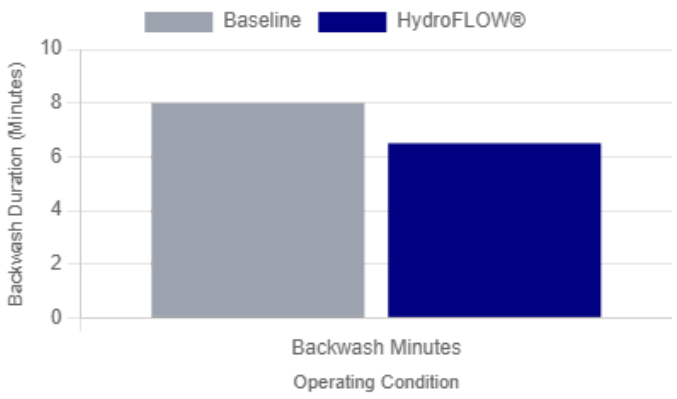
GRAPHS

Yearly Operating Cost ($)



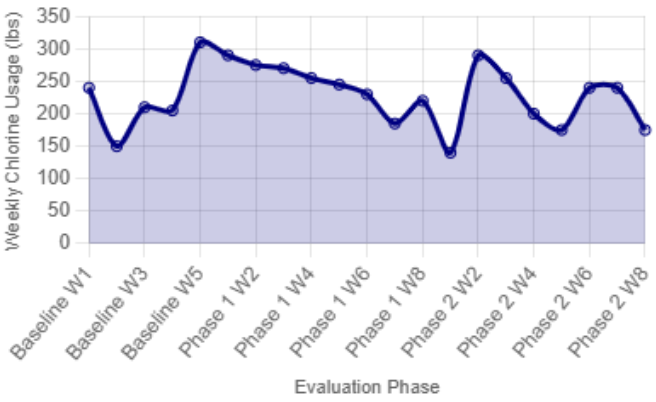
Estimated yearly power & maintenance costs were lower with HydroFLOW®

Reduced Backwash Time



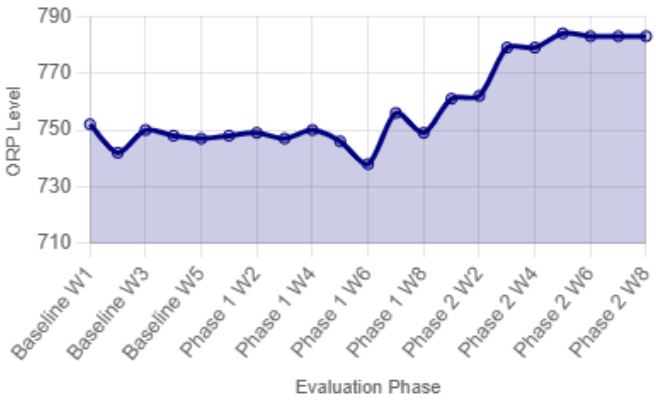
Manual backwash time reduced from almost 8 minutes to 6.5 minutes.

Chlorine Usage During Trial



Chlorine reduced during HydroFLOW® evaluation despite peak swim loading events

ORP Levels During Trial



ORP levels remained stable during HydroFLOW® evaluation and UV transition phases.

KEY TAKEAWAY

Summary

Hydropath treatment allowed Mountain View Aquatic Center to operate with its UV system turned off during the trial while maintaining water clarity and similar air quality performance. The evaluation reduced estimated yearly power and maintenance costs from $4,701 to $329, reduced chlorine demand by up to 135lbs from the baseline high point and reduced manual backwash time to 6.5 minutes. Hydropath signal readings were observed throughout the recirculating pool system.

93%	135lbs	19%
YEARLY COST REDUCTION	REDUCED CHLORINE DEMAND	BACKWASH REDUCTION

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COUNTRIES	YEARS EXPERIENCE	UNITS INSTALLED

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