



● SWIMMING POOLS

Wapato Municipal Swimming Pool Case Study Toppenish, Washington, USA

At a 375,000-gallon municipal pool, *HydroFLOW®* reduced backwashing by 65%, halved chlorine use and lowered filter-media consumption.

65%

Less Filter Backwashing

50%

Less Chlorine Used

\$16,663

Lower Reported Chemical
Costs

5 mo

Reported Payback



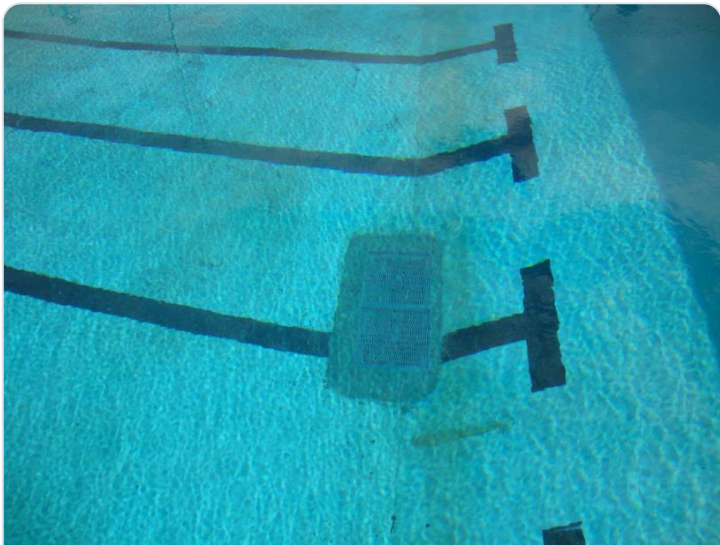
BEFORE & AFTER

● BEFORE

- Frequent filter backwashing
- Chlorine use: 30 buckets per month
- Filter media: 60 bags per season

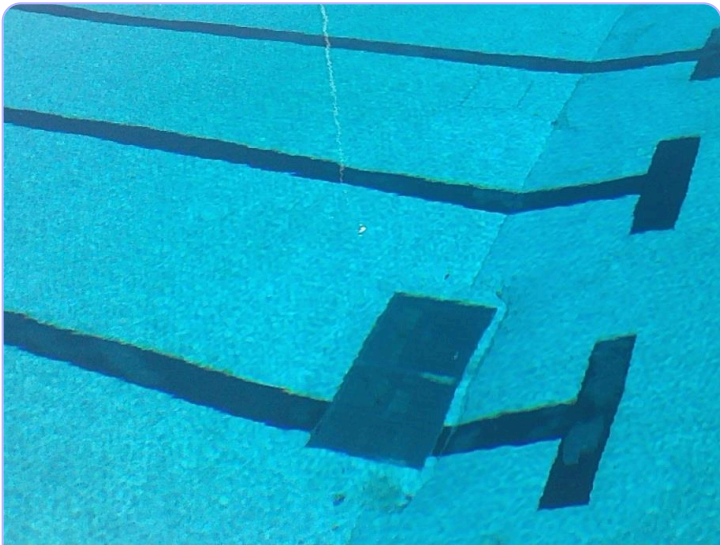
● AFTER

- ✓ Backwashing reduced by 65%
- ✓ Chlorine use: 15 buckets per month
- ✓ Filter media: 20 bags per season



BEFORE

Pool water before treatment



AFTER

Pool water after treatment



OVERVIEW

Yakama Nation Youth Activities operates a 375,000-US-gallon municipal swimming pool in Toppenish, Washington. The pool uses a diatomaceous earth filtration system. Maintaining clear, balanced pool water while controlling chemical consumption and filter maintenance was a priority for the operator.



CHALLENGE

The pool needed reliable water clarity and balance with less chemical use and filter maintenance.

- Frequent backwashing increased filter-media consumption.
- Routine chlorine and other chemical use added operating costs.
- The operator wanted to improve water clarity for swimmers.



SOLUTION

HydroFLOW® was installed on the 6" circulation line serving the pool's diatomaceous earth filtration system. Chemical and filter-media use were compared with operation when the unit was off.

UNIT INSTALLED

1 × HydroFLOW® P160

POOL VOLUME

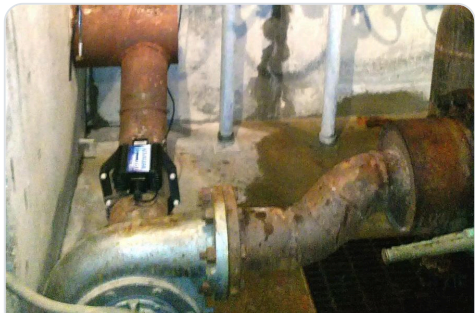
375,000 US gallons

PIPE SIZE AND LOCATION

6" circulation line

FILTRATION

Diatomaceous earth filter



INSTALLATION

HydroFLOW® P160 on pool pipework



SYSTEM

Diatomaceous earth filter



RESULTS

💧 65% Less Backwashing

Reported backwashing frequency fell by 65% during treated operation.

📉 50% Less Chlorine

Monthly chlorine use fell from 30 to 15 buckets.

📉 67% Less Filter Media

Dicalite use fell from 60 to 20 bags per four-month season.

🧴 Lower Chemical Use

Muriatic acid use halved; shock and stabiliser each fell from 8 to 5 buckets monthly.

💰 Reported Cost Reduction

Reported chemical and filter-media costs fell from \$34,466 to \$17,803.

🕒 Five-Month Reported Payback

The detailed case study reports a five-month return on investment.



TESTIMONIAL

"We had to keep reducing our chemicals in order to get the pH to stabilize between 7.2 and 8.0 and the Chlorine to stay at 1.0 ppm. Our customers gave us compliments throughout the last 3 months of the bathing season."

— Isha Wyman, Pool Manager

KEY TAKEAWAY

Summary

At the Yakama Nation municipal pool, *HydroFLOW*® reduced backwashing by 65% and chlorine use by 50%. Filter-media use fell from 60 to 20 bags per season, alongside lower acid, shock and stabiliser consumption. The source reports a five-month payback.

65%

LESS BACKWASHING

50%

LESS CHLORINE

5 mo

REPORTED PAYBACK

RELATED CASE STUDY

Colmar Nautical Stadium Pool Case Study

Colmar, France

A *HydroFLOW*® P160 was installed at the Colmar Stade Nautique indoor pool in France for a 1-year evaluation of filtration and flocculation. Filter washes were reduced from 78 to 52 per year with wash duration cut from 21 to 12 minutes, saving over €10,000 annually.

33% Fewer Washes

Filter backwashes reduced from 78 to 52 per year with improved results

43% Shorter Washes

Wash duration cut from 21 minutes to just 12 minutes per cycle

€10K Annual Savings

Total annual cost savings of €10,360 with ROI in under 9 months

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