



smartPOND™

Automated Stormwater Control



A STORMWATER SOLUTION THAT CONNECTS

As stormwater management evolves, engineers and developers need smarter, more efficient solutions. smartPOND is an adaptive, automated system designed to optimize detention, enhance water quality, and streamline compliance with changing regulations. Unlike traditional fixed stormwater controls, smartPOND offers dynamic control and real-time monitoring, ensuring maximum performance with minimal maintenance.

THE SMARTPOND LINEUP



AUTOMATED GATES

- 36" x 16" slide gate
- Bottom release
- Regulates release rate
- Release rate up to 50 CFS
- Customizable software
- One year warranty
- Maintenance plan available



AUTOMATED WEIRS

- 24" x 24" weir
- 90 degree rotation
- Surface release for improved water quality
- Release rate up to 40 CFS
- Customizable software
- One year warranty
- Maintenance plan available



AUTOMATED VALVES

- 6–12" butterfly valves
- Sensor spool
- Full connectivity
- 30" manhole optional
- Release rate up to 10 CFS
- Customizable software
- One year warranty
- Maintenance plan available

THE APPLICATIONS



STORMWATER QUALITY

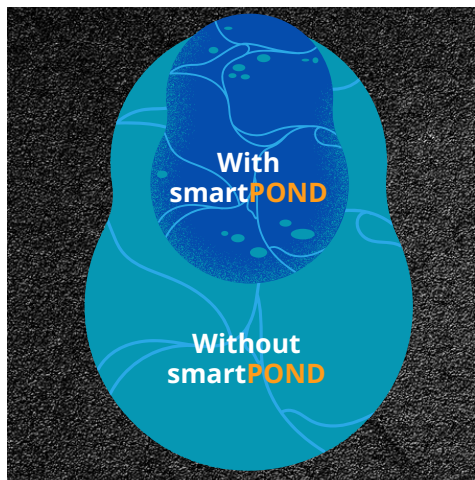
Batch Detention is a non-proprietary application programmed into smartPOND that creates a temporary settling pond by holding the water quality volume for 12 hours and releasing it over 36 hours, resulting in the following:

- Pollutant removal rates of 91% TSS, 79% TN (TKN + NOx) and 52% TP
- Reduced water quality pond size when calculations based on mass loading
- Lowest cost per acre for water quality
- Minimal maintenance costs compared to sand filters or bioretention



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REAL-TIME OPTIMIZATION

Real Time Optimization (RTO) is a proprietary application developed by Convergent Water Technologies programmed into any smartPOND that optimizes pond performance and reduces detention pond size:

- Reduce pond by 20% to 50%
- Increase lot yield
- Reduce cost of underground detention systems
- Real time performance monitoring

PREDICTIVE WEATHER

Convergent's Predictive Weather Application allows floodplain managers control over thousands of assets within a watershed from the comfort of their office. With smartPOND deployed, there's no reason to rush crews into the field prior to inclement weather.

- Manage floodplain strategy with Hold & Release
- Use harvested water for irrigation and release before storm
- Enhance water quality and performance of wet pond

CUSTOM APPLICATIONS

You have a problem; we have a solution. With Convergent Water Technologies and our team of engineers, scientists, and programmers, we will collaborate with you to develop a solution that meets your needs. Whether it's stormwater quality management, floodplain management, flood control, or maintenance and monitoring, let us create a solution for you.



Convergent has decades of experience in developing and delivering problem solving stormwater innovations. Convergent believes that adopting new ideas quickly, and integrating the process of innovation into stormwater regulation, product development and distribution is the only answer to our looming water crisis.

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