



Supporting Economic Growth and Protecting the Environment

The Challenge

Port Tampa Bay needed to ensure 100% of its land was available to meet an unprecedented expansion of containerized cargo calling on the port. Port Tampa Bay also imports 40% of Florida’s fuel supply and supports 80,000 jobs. Rather than using its own scarce land for stormwater infrastructure, Port Tampa Bay sought an alternative way to meet water quality goals while providing flood protection and ample space for continuous economic activity.

The Solution

Opti worked with National Stormwater Trust (NST) to retrofit an off-site retention pond with continuous monitoring and adaptive control (CMAC). The selected pond was leased from the Florida Department of Transportation (FDOT) by NST through a public-private partnership agreement. By upgrading FDOT’s existing pond to CMAC, excess water quality credits were generated for Port Tampa Bay to meet permit requirements. The improved FDOT pond also controls flooding and improves water quality in Tampa Bay.

At a Glance



Flood Mitigation



Improve Water Quality

“During Hurricane Ian, our smart pond automatically lowered by almost 4 feet. That extra storage enabled the capture of over 175,000 CF of untreated stormwater, preventing its discharge into the neighboring community and nearby Tampa Bay.”

Paul Anderson
CEO, Port Tampa Bay



ECONOMICAL

Decreased CAPEX

\$1.2 million savings



RESILIENT

Increased Water Quality and Flood Control



PEACE OF MIND

Safety, Security and Reliability



Results

By leveraging real-time weather forecasts, predictive analytics and automated controls, Opti and NST actively manage water level to maximize water quality treatment and flood protection performance. Opti's CMAC benefits include:

- \$1.2M in CAPEX and land savings for Port Tampa Bay, improving cargo capacity
- Nutrient reduction and peak flow management to protect Tampa Bay
- Excess water quality credits to meet Port Tampa Bay permit requirements

Benefits

Providing Port Tampa Bay and its neighbors with more protection from stormwater runoff and flooding, while improving water quality.

Turnkey Partner



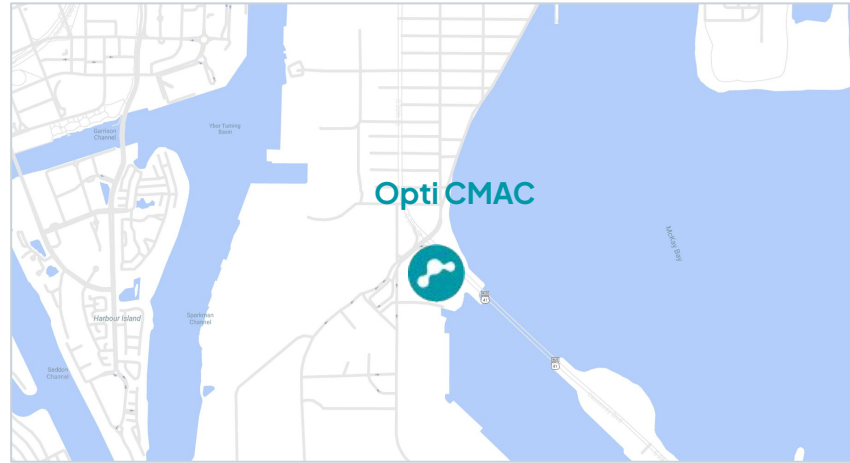
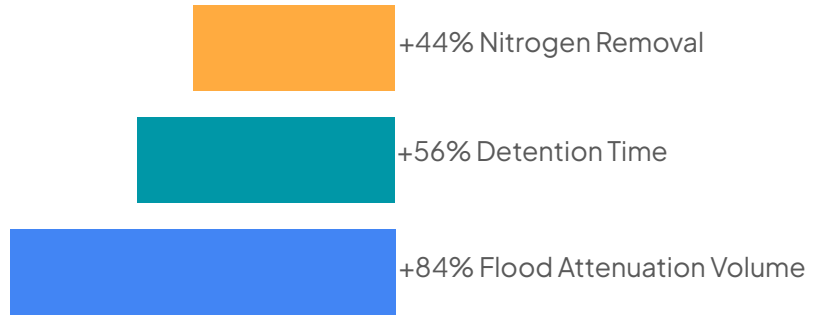
NST is a stormwater management company that designs and operates smart ponds to provide treatment solutions that benefit the public and private sectors and the environment. NST deploys Opti's CMAC, the leading digital adaptive controls platform to turn passive BMPs into adaptive control assets.

Top: Passive to active performance improvement.

Middle: Location of CMAC-enhanced smart pond at the intersection of S 22nd Street and S 20th Street in the Port of Tampa area.

Bottom: Completed CMAC-enhanced smart pond.

CMAC Performance (2022-23)



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About OptiRTC

Opti is the leading provider of digital adaptive stormwater control solutions. With over 300 deployments to date, Opti empowers customers and partners to address the impacts of climate change, aging infrastructure, urbanization, and water pollution, enabling them to secure the sustainability of our communities and natural resources. Opti's cloud-based platform optimizes stormwater asset performance through instant actionable insights to provide economic savings, resilient solutions, and peace of mind. With our commitment to innovation, we are driving a resilient and brighter future for all.



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