Opti
by **aliaxis**

Smart watershed network management mitigates flooding and reduces combined sewer overflows to the Hudson River.

The Challenge

Beaver Creek District, the largest sewershed within the City of Albany's combined sewer system, previously discharged over 530 million gallons average of combined sewer overflows (CSOs) to the Hudson River every year. The City has invested in several capital projects as part of its Long-Term Control Plan to address CSO and flash flooding issues, while mitigating property damage and potential health and safety hazards.

The Solution

To maximize the benefits of those investments and optimize the performance of new infrastructure, the City's Department of Water and Water Supply and their consulting partner, CHA Consulting, Inc., has implemented a smart network utilizing the Opti platform and products across the Beaver Creek sewershed.Opti's advanced technology integrates with multiple platforms, SCADA systems, and applications to extend networks and capabilities for an efficient, smart watershed network. These integrations provide operators with peace of mind by consolidating data and streamlining operations and maintenance of assets outside the fence. The use of Opti's digital solutions for data-driven stormwater management has helped Albany protect people, property, and environment while meeting regulatory compliance.

At a Glance

- Operating since 2017
- Coordinated control across six (6) stormwater assets
- Increased wet weather capture from 10% to 90% for only $0.005 per gallon

"Opti helps us identify existing conditions and develop strategies to adapt to a changing environment."

Joseph E. Coffey, Jr., P.E.
Commissioner, Department of Water & Water Supply

ECONOMICAL
98% Savings
$6.4M reduction in CAPEX

RESILIENT
8X Performance
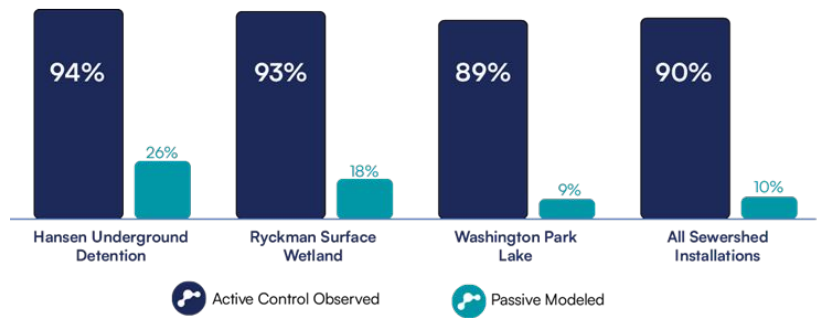Enhanced and streamlined

PEACE OF MIND
Public Safety
Protecting 100,000 residents

Results

Wet weather flow volume reductions were observed to increased by an average of 8X using Opti's adaptive controls as compared with modeled passive control systems. Coordinated control across multiple assets maximizes upstream capture while minimizing downstream overflows at the "Big C" sewer outfall and wet weather flow at the Albany South Treatment Plant.

Wet Weather Flow Volume Reduction

Hansen Underground Detention	Ryckman Surface Wetland	Washington Park Lake	All Sewershed Installations
94% / 26%	93% / 18%	89% / 9%	90% / 10%

- Active Control Observed
- Passive Modeled

Partners

CHA

SMARTCOVER
WE'VE GOT IT COVERED™

Ignition!
by inductive automation

Awards

APWA
NEW YORK CHAPTER

2018 Project of the Year Award

IDC Smart City
NORTH AMERICA AWARDS

2019 Winner in Smart Water Category

ACEC New York
American Council of Engineering Companies of New York

Recipient of 2019 Platinum Award

Map Legend
- Opti CMAC
- Opti Monitoring
- Existing Asset
- Third-Party

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Hudson River

USGS
science for a changing world

Big C Combined Sewer Outflow

Albany South Treatment Plant

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Albany Smart Watershed Network

About OptiRTC

Opti, an Aliaxis company, 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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