# **TOWNSHIP OF VERONA WASTEWATER TREATMENT PLANT ASSESSMENT**

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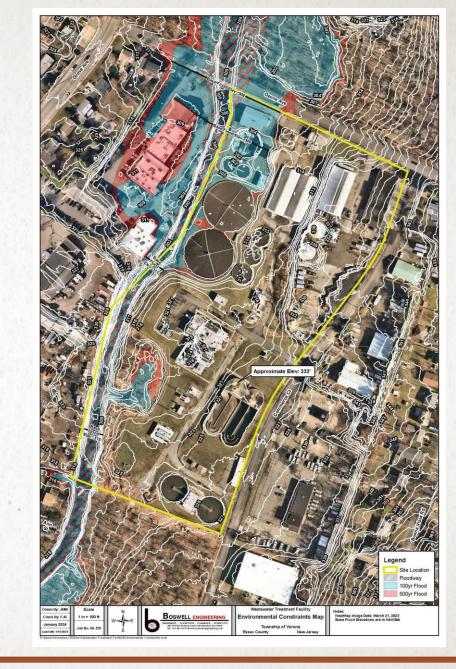


#### WASTEWATER TREATMENT PLANT

- Verona Wastewater Treatment Plant (WTP) was constructed in 1928.
- Major renovations were completed in 1967 and 1988.
- Plant is owned and operated by the Township and is rated for an average daily flow of 3.0 million gallons per day (MGD) and discharges into the Peckman River

# WTP MAIN ASSETS

- Raw sewage Pumping Station
- Headworks area
- Three (3) primary clarifiers
- Primary Clarifier Pumping Station
- Two (2) trickling filters
- Two (2) oxidation ditches
- Three (3) secondary clarifiers
- Secondary Clarifier Pumping Station
- Two (2) anaerobic digesters
- Three (3) microscreens
- Four sets of in-channel UV system



### **IMMEDIATE NEED PROJECTS**

• Projects identified by Operator and staff that need immediate replacement or rehabilitation due to deficiencies

## **PRIORITY 1 PROJECTS**

- Primary Clarifier Pumping Station
- Microscreens
- Ultraviolet (UV) Disinfection System

Approximate Construction Cost - \$7.18M

## **FUTURE PROJECTS**

- Primary Clarifier Drives
- Raw Sewage Pumping Station
- Trickling Filter Slide Gate and flow meter
- Secondary Clarifiers structural improvements
- Secondary Clarifiers Drives
- Electrical Analysis of WTP
- Structural Analysis of Clarifiers
- Miscellaneous Site Civil Improvements
- I/I Study
- I/I Rehabilitation Works

Approximate Construction Cost - \$22M

#### **OPERATION AND MANAGEMENT OF WTP**

- Alternative 1 Hiring full-time operator and staff for WTP
- Alternative 2 Retain the services of O&M Provider
- Alternative 3 Possible conversion of WTP to pumping station to convey flow to Passaic Valley Sewerage Commission

#### **ALTERNATIVE 2 – O&M PROVIDER**

- Ability to implement a solution within the shortest timeline. It is expected this alternative can be implemented within 6 months
- Assumption of responsibility WTP operations by O&M Provider
- Assumption of responsibility for all testing, reporting and records management
- Opportunity for training and mentoring of Township personnel by qualified personnel
- Specialized experience with advanced technologies by O&M provider
- Ability for O&M Provider to change staffing to meet specific operating conditions, as needed
- Ability to implement solution on either a short or long-term basis.



- All alternatives will require capital projects to ensure regulatory compliance
- Benefits of I/I study
- Project costs and coordination with User Rate Study
- Cost for Alternative 2 versus other alternatives

