

# Marathon City Wastewater Plant Fact Sheet

## Facility Data

- Original Construction: **1959**
- Upgrades: **1971 and 1999**
- Average Age of Plant Components: **38 Years**
- Oldest Component: **61 Years**
- Newest Component: **21 Years**
- Average Design Capacity of Plant: **0.35 MGD**
- Total Sanitary Customer Base: **596**
- Treatment System: Activated Sludge with Biologic Phosphorus Removal (BPR)

## Current Facility Conditions

The current facility has served the Village of Marathon City well over its life. However, most of the facility components are well beyond their useful design life. Maintenance costs have escalated over the past five years as components fail. Cost increases are driven by equipment failures, equipment obsolescence and the limited availability of parts for maintenance requiring custom manufacture of parts at additional expense.

The facility is also challenged by inadequate hydraulic capacity which creates constraints in the wastewater flow through the plant. The final clarifiers and the effluent pipe are undersized creating flow challenges. The mixed liquor channel incorporates a 90° bend creating uneven clarifier loading and a bottleneck at higher flow rates. The combination of these issues results in compliance issues at higher flow levels within the plant.

As a result of the compliance issues, WDNR has placed the facility under a compliance agreement requiring significant changes to the facility to address the challenges outlined above.



Existing Wastewater Treatment Plant



## Village of Marathon City

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# Facility Plan

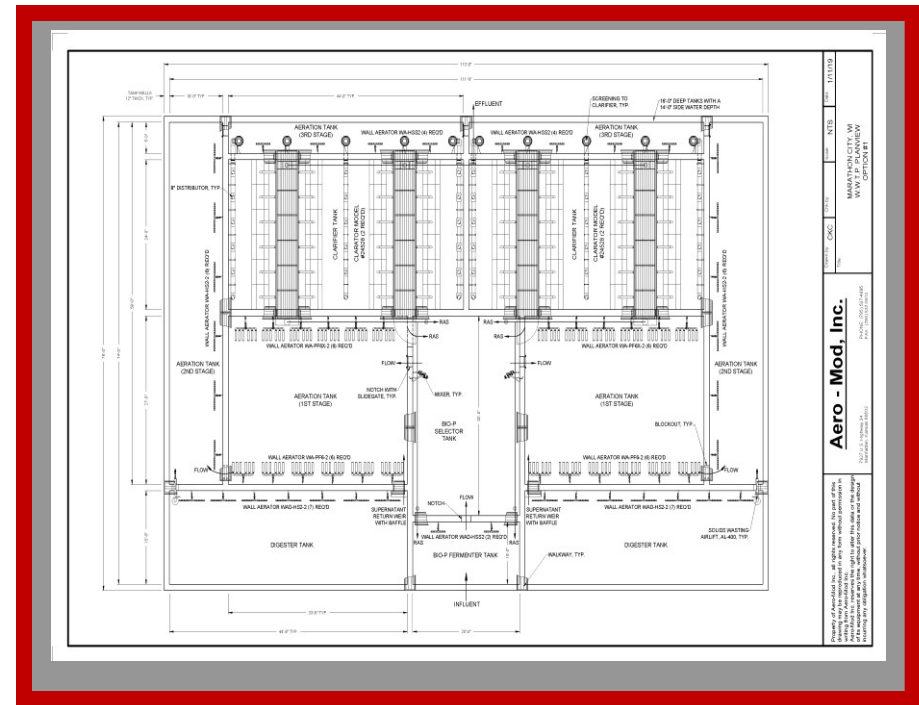
## Replacement Versus Upgrade

The Village has evaluated multiple alternatives to address the issues identified at the wastewater plant. These included a complete upgrade of the existing facility and adding new components or several partial upgrades of the existing facility. The estimated costs were \$9,043,000 and \$9,900,000 respectively.

The proposed option consists of a new treatment plant combined with upgrading and/or reusing several of the existing components of the current facility (grit removal & screening, BPR tanks, sludge handling, biosolids storage and existing buildings). The estimated cost for is \$7,741,000.

Benefits of the proposed option are reduced initial capital expense, reduced equipment maintenance, reduced operating expense, simpler construction sequence, enhanced expansion capability, improved future compliance readiness and reduced average age of facility components.

The complete facility plan is available online.



Proposed Aeromod Treatment System

## Public Hearing Data

- Hearing Date has been schedule for July 15, 2020 at 5:30 P.M.
- The Public Hearing will be held at the Marathon High School Auditorium.
- Public Hearing will be in-person and virtual.

## Estimated Costs and Projected Rate Impacts

- Estimated Cost for New Wastewater Facility: **\$7,741,000**
- Anticipated Clean Water Loan Fund Grant: **\$858,000**
- Additional Grant Opportunities Are Being Pursued
- Projected Rate Increase Would Be Phased in Over 4 Year Period (13.5% annually)
- Average Residential Customer Uses 9210 Gallons per Quarter
  - Projected Increase per quarter of \$15 in YR1, \$17 in YR2, \$19 in YR3, and \$22 in YR4 for an Average Residential User
  - The total of annual quarterly increases after YR4 is \$68 or \$272 Annually
- Final Costs and Final Rate Increases Will be Established After Bid Process