AQUAPOINT PROJECT PROFILE: Bioclere^{-OH}



Parker Terrace: Easton, MA

The inception of this system dates back to 2009, when the Mass. Department of Environmental Protection (MADEP) determined that the communities' three conventional septic systems had failed and were polluting the local groundwater. On top of needing to replace the existing wastewater infrastructure, the Easton Housing Authority (EHA) also had new regulations to deal with, including reduction of total nitrogen (TN) & total organic carbon (TOC). Finally, given the system's proximity to a municipal water well, AquaPoint & the Consulting Engineering firm certainly had many challenges to overcome.

When factoring in the primary drivers for this project – effluent standards, cost efficiency, small footprint, and sustainability – Graves Consulting Engineers decided to install an AquaPoint Bioclere^{-OH} wastewater treatment system. This multi-stage, hybrid system integrates AquaCELL aerobic and anoxic MBBR chambers with two of our Bioclere trickling filters in between. Treated effluent flows through a tertiary stage sand filter, activated carbon filters and UV disinfection prior to discharge. This system helps offset other costs as the effluent is used for irrigation throughout the grounds of the housing complex. The data set on the backside of this page will show the stable & effective performance of this system. Application Type: Residential

Treatment Process: Bioclere^{-OH}

Design Flow: 30,000 GPD

Performance Requirements:

Influent: 250 BOD / 250 TSS / 45 TKN (mg/l) Effluent: 30 BOD / 30 TSS / 10 TN/ 3 TOC (mg/l)

Project Drivers:

Implement a cost-efficient & sustainable AquaPoint process to replace failed septic systems within a small footprint

Process Benefits:

Compact design Reuse for irrigation Durable media (>25 year life cycle) Easy to operate Stable process

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	BOD (mg/l)	TSS (mg/l)	TN (mg/l)	TOC (mg/l)
Effluent Standard	<30	<10	<10	<3
Week of				
3/5/2019	3	2	0.5	2
4/9/2019	3	2	3.2	1
4/23/2019	4	2	5.5	2
5/14/2019	7	2	6.2	2
7/10/2019	3	2	7.9	2
8/20/2019	3	3	1.4	2
8/27/2019	3	2	2.7	2
9/17/2019	8	2	7.5	2
3/2019-9/2019 avg.	4.4	2.1	8.8	2.8

Performance Data

