



Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

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January 20, 2022

Russ Dion  
Campanelli Trigate Boxborough Sub, LLC  
1 Campanelli Drive  
Braintree, MA 02184

City/Town: Boxborough  
Re: **Approval**  
Program Identifier: WP 68, GW#645  
Record ID: 21-WP68-0014-AMP  
Facility Name: Campanelli Business Park of  
Boxborough  
Authorization Type: Groundwater Discharge

Dear Permittee:

The Central Regional Office of the Massachusetts Department of Environmental Protection (“MassDEP”) has completed its Technical Review of the application for the above referenced authorization for a treatment works plan approval. The submitted documents include:

- “*Design Report for Water Resource Recovery Facility Modifications for Campanelli Trigate Boxborough Sub. Boxborough, Massachusetts*” dated 11/19/21, prepared by Onsite Engineering, Inc.
- “*Campanelli Trigate Boxborough Sub. Boxborough, Massachusetts. WRRF Facility Modifications*” stamped design plans dated 11/19/21, prepared by Onsite Engineering, Inc.
- “*Specifications for Water Resource Recovery Facility Modifications for Campanelli Trigate Boxborough Sub. Boxborough, Massachusetts*” dated 11/19/21, prepared by Onsite Engineering, Inc.

The existing effluent disposal area is located within the Zone II of a public water supply. The latest renewed permit (GW#645-4) issued on December 28, 2021, imposes more stringent effluent limits if the discharge is not relocated outside of the Zone II by February 28, 2023. Rather than move the disposal area, the permittee has elected to upgrade the existing facility in order to comply with the more stringent discharge limitations.

The proposed modification includes the installation of a bag filter, granulated activated carbon (GAC) filter and new ultra-violet (UV) disinfection units. Wastewater will flow through the existing

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

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treatment process which includes rotating biological contactors (RBC's), settling clarifiers and a denitrifying sand filter. After the sand filter, flow will be re-directed into a new GAC holding tank. Two new pumps will draw wastewater from this tank and send it through the bag filters and GAC filters. It will then gravity flow through the new UV units. Redundancy is included for all new components, allowing them to be run in series or parallel. A flow meter will be installed prior to the GAC units, and a sample port will be installed after the UV units. After the UV units, flow will enter the existing aeration tank and continue through the existing tankage out to the existing leach field. The existing aeration tank will be modified to house two GAC backwash pumps. GAC backwash will be connected into the existing RBC recycle line back to the pretreatment tank. The GAC filters and pumps will have their own control panel and alarm system while the bag filters and UV units will be independently controlled.

MassDEP hereby, **approves**, the modification to the Campanelli Trigate Boxborough Sub, LLC wastewater treatment facility subject to the following conditions:

1. The permittee shall schedule a clear water test with MassDEP of the new process units as well as all existing components of the WWTF prior to MassDEP authorizing use. Please contact this office to schedule the clearwater test.
2. Since July 2019, the WWTF has not been in operation; therefore, prior to the clearwater test, the permittee shall evaluate and assess all existing components/process units of the WWTF. Any defective components shall be replaced and/or repaired before scheduling the clearwater test.
3. The Operation & Maintenance (O&M) manual shall be revised to reflect the modification to the facility. The revised O&M shall be submitted to this office for review prior to the clearwater test. An approved O&M shall be kept on site at all times.
4. Upon completion of the upgrades, a final set of construction plans shall be submitted to this office. An approved set of plans shall be kept on site at all times.
5. Within thirty (30) days of this correspondence, please submit a construction schedule to this office.
6. The proposed plans shall be updated to show an extension on the railing system of the existing sand filter/UV unit to bring the railing up to a safe working height.

No modifications to the approved design plans shall be permitted unless the permittee receives written approval from MassDEP authorizing such modification with concurrence of the design engineer.

Thank you, and if you have any questions or comments regarding this letter, please feel free to contact James Laughlin at [james.laughlin@mass.gov](mailto:james.laughlin@mass.gov).

Sincerely,

A handwritten signature in cursive script that reads "David Boyer".

David Boyer, P.E.  
Section Chief  
Wastewater Program

cc: Nashoba Associated Boards of Health

Whitewater, Inc.

Onsite Engineering, Inc.

Dave Vroman, Campanelli Trigate Boxborough Sub, LLC