

TOWN OF WALLINGFORD  
DEPARTMENT OF PUBLIC UTILITIES  
WATER AND SEWER DIVISIONS

RECEIVED

JAN 05 2021

WLFD. INLAND/WETLAND

ENGINEERING SECTION  
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**INTEROFFICE MEMORANDUM**

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**TO:** ERIN O'HARE, ENVIRONMENTAL PLANNER  
**FROM:** ERIK KRUEGER, P.E., SENIOR ENGINEER, WATER AND SEWER DIVISIONS *HALK*  
**SUBJECT:** 932 NORTHPROP ROAD - INLAND WETLANDS AND WATERCOURSES PERMIT APPLICATION NO. A20-12.1 - PROTON INTERNATIONAL  
**DATE:** JANUARY 5, 2021  
**CC:** N. AMWAKE, P.E.; D. SULLIVAN; J. PAWLOWSKI; K. BRENNER; T. TALBOT, ACTING TOWN PLANNER; P. CARBONE, PROTON INTERNATIONAL; J. LOUGHLIN, LOUGHLIN LAW PC; A. WHITE, TIGHE & BOND

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The entire property associated with this application is within the Wallingford Watershed Protection District. As such, all of the land on the property is tributary to the Town's public drinking water supply. In addition to the Inland Wetlands and Watercourses Regulations, the project is also subject to the Watershed Protection District (WPD) regulations in section 4.13 of the Wallingford Zoning Regulations.

The Wallingford Water and Sewer Divisions offer the following comments regarding the subject project as it relates to the Inland Wetlands and Watercourses Regulations and the Watershed Protection District regulations.

We hereby request that all of the noted comments in this memorandum be made conditions of approval to be addressed prior to commencing work at the site.

1. Storm water collection and treatment system:

- a. The Watershed Protection District Regulations stipulate that the storm water from all parking areas, loading docks and impervious traveled ways be treated. The drawings for this application show that the storm water runoff from the parking areas and driveway will be directed to a conventional oil\water\grit separator followed by a sand filter prior to discharge into the the underground infiltration system and/or the storm drainage system as required by the WPD Regulations.
- b. The storm water runoff from unpaved, non-traffic areas and building roof is shown to be diverted away from the storm water treatment system and discharged to the underground infiltration systems.
- c. The calculations in the Engineering Report prepared by Tighe & Bond dated December 1, 2020 indicate that the sand filters for the storm water treatment system will provide a minimum volume above the top of sand equal to the initial 1-inch of runoff for the tributary area with a minimum of 1-foot of freeboard above the maximum water elevation as required by the WPD Regulations.

The storm water treatment systems shown on the drawings include diversion structures upstream of the oil/water/grit. There is no detail for the diversion structures and it is not clear if calculations are provided that show all flows in excess of the 25-year return period storm will be bypassed around the oil\water\grit separators.

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Provide details of the diversion structures and calculations that show all flows in excess of the 25-year return period will be by-passed around the oil\water\grit separators to the detention-infiltration basin while limiting the liquid level in the tank to less than three inches below the inside of the top slab of the separators for all storms up to and including the 100-year storm return frequency rainfall event.

Provide hydraulic calculations and profiles that demonstrate the storm water treatment system will operate adequately based on the stated conditions for review and approval by the Water Division before work commences at the site.

2. Storage containers:

- a. Storage vessels in the Watershed Protection District are regulated under section 4-13 C. of the Zoning Regulations.
- b. The onsite stand-by generator shown on the drawings will operate using diesel fuel. The diesel fuel tank and all other storage vessels will be subject to the rules as defined in the Watershed Protection District regulations and must comply with all requirements stated therein.

3. Ice control:

- a. No parking lot containing more than ten parking spaces shall use sodium chloride for ice control.

4. Erosion Controls:

- a. Erosion controls for the project are critical to the protection of the public drinking water supply downstream of the site. Extreme care shall be used in the installation and maintenance of the erosion control systems for the duration of the project.
- b. All erosion controls will be subject to the Water Division water quality inspectors review and approval prior to the start of site grading.

5. Stormwater System Operations and Maintenance Plan:

- a. A storm water management system maintenance schedule is included on drawing No. C-302. The maintenance items and intervals as shown will be adequate to meet the requirements of the Water Division. Please note, the Water Division shall retain the right to sample the effluent of the storm water management system and have such samples analyzed by a State certified laboratory to determine if the runoff is in compliance with the cited water quality standards. Cost of such sampling and analysis shall be paid by the Owner for up to four samples at each treatment system per year.

6. Per my conversations with Mr. Andrew White of Tighe & Bond the large mound of soil shown north of the proposed building on the Grading Plan (sheet No. C-201) is being constructed in order to contain "impacted" soils discovered on the site. Apparently, previous agricultural activity on the site resulted in low level contaminants to be left in the soil. It is my understanding that the Connecticut Department of Energy and Environmental Protection (CT-DEEP) was consulted and approved of a plan to stockpile the impacted material on site and cover it with clean soil.

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Kindly provide information on the nature and degree of contaminants discovered and correspondence from the CT-DEEP that indicates their approval of the proposed stockpiling and cover plan.

Erosion controls shown on the drawings include a sediment trap at the toe of the proposed mound. It is imperative that the erosion controls be adequately maintained during the stockpiling operation so that impacted soils are not washed downstream into the drainage channel which ultimately flows into the Muddy River which is tributary to the Wallingford municipal drinking water supply watershed. All erosion control shall be maintained until the site is stabilized with permanent vegetation.

7. Water and Sewer Utilities:

- a. Water and sanitary sewer utilities are available at this location.
- b. Comments regarding this wetlands application are focused on the impact to the public drinking watershed.
- c. Some of the details as well as the size of the required water and sewer utilities shall be revised as necessary to meet the requirements of the Water and Sewer Divisions. Additional comments regarding the water and sewer utility services to the building will be detailed further in our review of the Planning and Zoning application for this project.
- d. A performance bond will be required to be posted by the Owner for the water and sewer utility installations. The amount of the bond will be based on the estimated cost of the water and sewer utility installations and will also include an additional \$10,000 in order to cover the storm water maintenance system.