

November 22, 2023

Company  
Address Line 1  
Address Line 2  
City, State, Zip

Cover Letter

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Best Regards,

Eric Foerster's Signature

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## Organic Matter

The mean OM measurements can be summarised as follows:

* The **GREEN** samples taken on December 16th, 2021 were as follows:
  + At a depth of **0-2 cm**, the OM content was **5.77%**.
  + At a depth of **2-4 cm**, the OM content was **4.38%**.
  + At a depth of **4-6 cm**, the OM content was **2.93%**.

The lab results represent the baseline from which to make cultural decisions. Like calibrating a TDR measurement for soil moisture content based on subjective observations, the OM246 test should be thought of in the same context. Playability and overall green performance should be considered.

The TORV average line in the Organic Matter graphics represent the average of all TORV clients for the represented depth. Testing annually at the same time is recommended. Testing in spring and again in fall is also common practice for many properties if that is of interest. When the test is performed again, we will be able to:

* Add a trendline visualizing how the OM% is trending.
* Calculate the organic matter accumulated or lost over a known period.
* Using a known amount of topdressing applied, we can estimate/calculate the Amount of topdressing needed to maintain, increase, or decrease the organic matter.
* Consider obtaining an accurate topdressing rate per year to make this calculation possible. What is the estimated depth of all topdressing applications applied this year?
* [This video from the USGA](https://www.asianturfgrass.com/post/sand-topdressing-by-depth/) shows how to calculate the depth along with the required conversion equations.
* Cultural decisions such as aerification, verticutting, topdressing amounts/frequency can be influenced by tracking organic matter over time and established goals for organic matter targets.

[TODO: Additional comments]



These measurements are neither good nor bad. Information such as fertilizer applied, cultural practices, sand applied, verti-cutting, aerification, etc. can be used to see how these practices have changed the OM% by depth. Ideally, once a desired OM% has been identified based on playability and turf performance, fertility and cultural practices can be adjusted to maintain the desired OM%.

The S325 test package includes the entire sample submitted. This includes leaves, stems, and roots. This differs from the standard soil test which filters out most of the components. This is the reason why the percentages appear higher than that on a standard soil test.

