Turf & Soil Diagnostics

ACCREDITED TESTING Cert #0797.02

***MATERIALS TEST REPORT FOR***
**Newfield Sand**

**REPORT TO:** Newfield Sand
Matthew Pepin
59 Shaw Road
Sanford, ME 04073

**DATE RECEIVED:** Sep-29-2025
**REPORT DATE:** Sep-30-2025
**REPRINT DATE:** Oct-10-2025
**CONDITION OF SAMPLE:** Normal

## MATERIAL ANALYSIS

| | | Soil Separate[1] % | | Sand Size Class / Sand Particle Diameter[1] % Retained | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID#** | **Sample Name** | **Sand** | **Silt & Clay** | **No. 5 Gravel 4.0 mm** | **No. 10 Gravel 2.0 mm** | **No. 18 V. Coarse 1.0 mm** | **No. 35 Coarse 0.50 mm** | **No. 60 Medium 0.25 mm** | **No. 100 Fine 0.15 mm** | **No. 270 V. Fine 0.05 mm** | **D15 mm** | **D85 mm** | **Uniformity Coefficient Cu** |
| 51805-1 | Newfield #1 | 98.6 | < 1.0 | 0.0 | 0.5 | 8.5 | 31.9 | 41.7 | 12.6 | 3.8 | 0.23 | 0.88 | 2.7 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| USGA Recommendations for Greens | | | ≤ 8%[2] | 0% | ≤ 3% Gravel<br>≤ 10% Combined | | ≥ 60% Combined | | ≤ 20% | ≤ 5% | - | - | See Below |

USGA Rootzone Coefficient of Uniformity Recommendations: 1.8 to 3.5 for Mixes with Peat; 2.0 to 3.5 for Mixes with Inorganic Amendment or Pure Sand.

[1]TSD Quality Control Testing SOP

[2] ≤3% clay, ≤ 5% silt



Samples were received with a transmittal letter.

Reviewed by Duane K. Otto



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### Gravel Distribution Analysis (ASTM C136)

| | | % Passing (US sieve) mm | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab ID#** | **Sample Name** | **1/2 inch 12.5 mm** | **3/8 inch 9.5 mm** | **1/4 inch 6.3 mm** | **No. 4 4.75 mm** | **No. 5 4.0 mm** | **No. 7 2.8 mm** | **No. 10 2.0 mm** | **No. 18 1.0 mm** | **Uniformity Coefficient** | **D15 mm** |
| 51805-2 | Drainage Gravel | 98.1 | 70.3 | 19.3 | 8.9 | 5.7 | 3.2 | 2.7 | 2.4 | 2.1 | 5.6 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| USGA Recommendations | | 100 | - | - | - | - | - | ≤ 10 | ≤ 5 | < 3.0 | See Below** |

USGA Gravel/Sand compatibility: D15 Gravel < 8 x D85 Sand (Bridging) & D15 Gravel > 5 x D15 Sand (Permeability)

*ASTM Method C136 & Determination of Size Factors SOP
Samples were tested as received and comments pertain only to the samples shown.
This report may not be reproduced in part, but only in full.
Sample condition upon receipt was normal.
Samples were received with a transmittal letter.

Reviewed by Duane K. Otto



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Turf & Soil Diagnostics

October 10, 2025

Newfield Sand
Matthew Pepin

TSD File #51805

This report details the results of the Newfield #1 and Drainage Gravel samples, which were tested as received. For bridging, the results are being compared to the USGA Recommendations for Greens Construction.

The Newfield #1 sample is a clean sand. The gradation meets USGA particle size recommendations for greens construction. The D85 is 0.88 mm.

The Drainage Gravel sample is similar to USGA gradation recommendations. There is a small amount larger than ½". There is little passing the 2 mm (No. 10) screen and is uniform in particle size, as indicated by the low uniformity coefficient (Cu). This gravel will meet the USGA gravel/sand compatibility requirements with a sand/rootzone that has a D85 greater than or equal to 0.71 mm.

Based on the data generated from the submitted samples, the sand and gravel meet the USGA bridging requirements.

Please let us know if you have any questions or are in need of further assistance. Samples are generally kept on the premises for 45 days after report date. Thank you for using Turf & Soil Diagnostics, Inc.

Duane K. Otto Digitally signed by Duane K. Otto
Date: 2025.10.10 15:18:37 -05'00'

Duane K. Otto
President



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