



Turf & Soil Diagnostics

November 6, 2018

Todd Houser
Norlite
628 South Saratoga St.
Cohoes, NY 12047

TSD File #44290

The $\frac{3}{4}$ Norlite and $\frac{3}{8}$ Norlite samples were tested as received.

Water release testing was performed on these samples to 1019 cm (1 bar) tension. The data indicates the two samples release most of the water by the 60 cm tension. Very little water is released between the 60 cm and 1019 cm tensions.

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.

Sincerely,

Duane K. Otto

Duane K. Otto
Vice President

Page 1 of 4



Turf & Soil Diagnostics



**MATERIALS TEST REPORT FOR
Norlite**

REPORT TO: Norlite
Todd Houser
628 South Saratoga St.
Cohoes, NY 12047

DATE RECEIVED: Oct-18-2018
DATE REPORTED: Nov-6-2018
CONDITION OF SAMPLE: Normal

PHYSICAL PROPERTIES*

Lab ID#	Sample Name	Particle Density** g/cc	Infiltration Rate* in/hr	Bulk Density g/cc	Total Pore Space %
44290-1	3/4 Norlite	2.07		0.94	54.6
44290-2	3/8 Norlite	2.30		0.93	59.7

Simulated Profile Depth (Tension) cm	3/4 Norlite			3/8 Norlite		
	Water Content (Capillary Porosity)	Aeration Porosity	Degree of Saturation	Water Content (Capillary Porosity)	Aeration Porosity	Degree of Saturation
	%	%	%	%	%	%
0	54.6	0.0	100.0	59.7	0.0	100.0
60	17.3	37.3	31.9	13.7	46.0	22.9
100	17.0	37.5	31.4	13.5	46.2	22.6
340	16.5	38.0	30.5	13.1	46.6	21.9
1019	16.0	38.5	29.6	12.7	46.9	21.3

*ASTM F1815 with water release

**ASTM D5550

Samples were tested as received and comments pertain only to the samples shown.

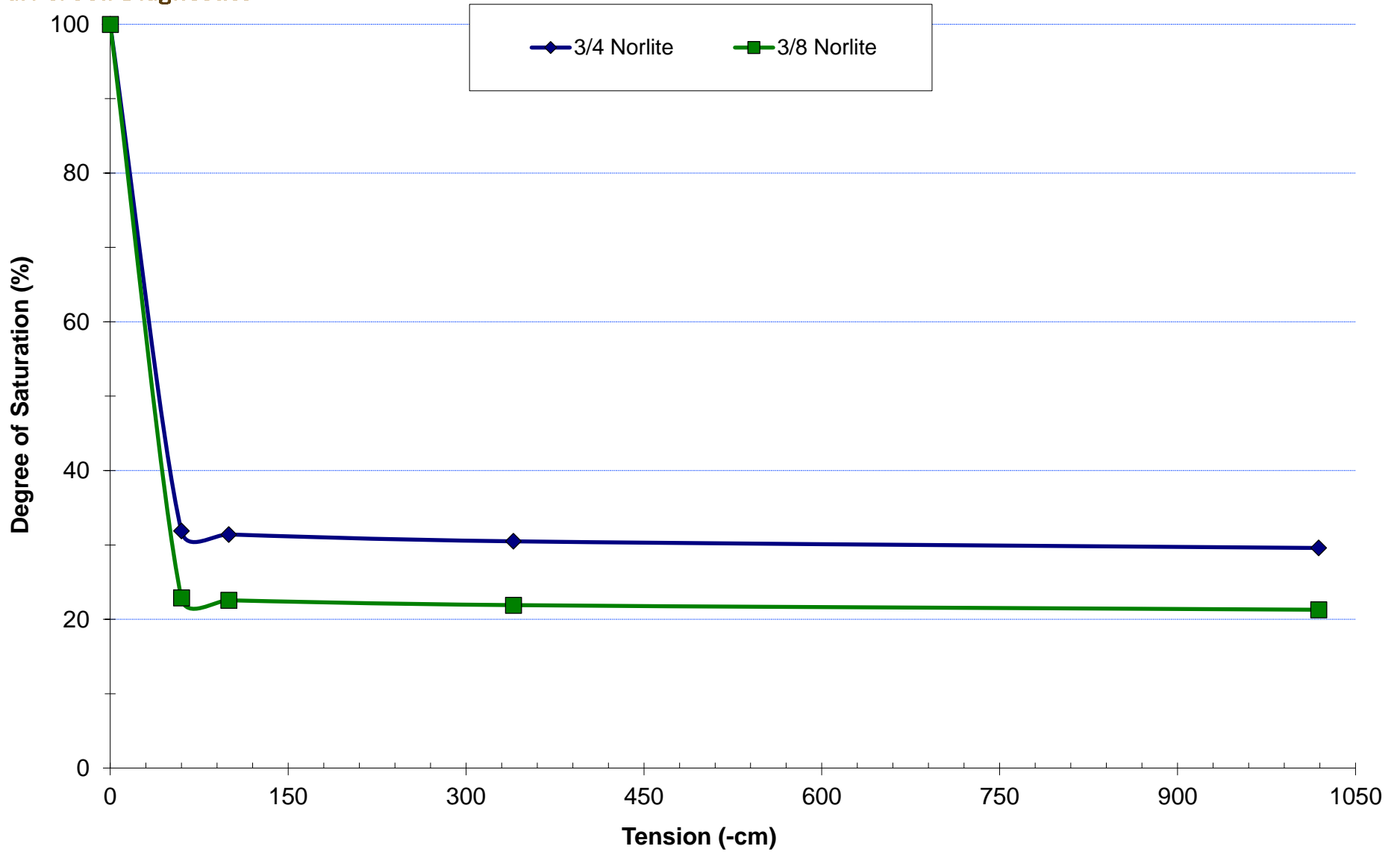
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Samples were received with a transmittal letter.

Reviewed by Duane K. Otto

Norlite Water Release Curve File #44290

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Norlite Water Release Curve (Porosities) File #44290

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