



Turf & Soil Diagnostics

November 30, 2020

Eric Pollock
G&S Solutions
22455 WCR 49
La Salle, CO 80645

TSD File #20110056

Enclosed are the results of the EQ-Footing 20 sample received by our laboratory on November 23, 2020. This sample was tested as received. The ASTM F2107-08 *Standard Guide for Construction and Maintenance of Skinned Areas on Baseball and Softball Fields* guidelines and the Hummel Ballfield guidelines are included in the report for comparison purposes.

Particle size test results indicate that the sample is classified as sandy loam according to the USDA soil classification system. The sample has gradation that meets the F2107 standard. The silt to clay ratio and gradation are similar to, but outside of the Hummel ballfield guidelines.

ASTM F2107 states: "If the performance of a skinned infield mix is not totally satisfactory after installation, its physical composition can be altered by incorporating sand or amendments to loosen it or by adding clayey soil to create a firmer mix. Such alterations may be related to player preference or to ease of maintenance."

If you have any questions or need further assistance, please contact us. Samples are generally kept on the premises for 45 days after report date. Thank you for using Turf & Soil Diagnostics, Inc.

Sam Ferro
President

Page 1 of 2



Turf & Soil Diagnostics

G&S Solutions
 Eric Pollock
 22455 WCR 49
 La Salle, CO 80645



Date Received Nov-23-2020
 Date Reported Nov-30-2020
 Facility Product Development

Particle Size Evaluation*

Lab ID#	Sample Name	% Sand 2.0 - 0.05 mm	% Silt 0.05-0.002mm	% Clay < 0.002mm	Silt : Clay Ratio	USDA Textural Classification	Dry Color
20110056-2	EQ-Footing 20	79.7	10.8	9.6	1.1	Loamy Sand	10YR 5/4 Yellowish Brown
	Ballfield Guidelines**	65 - 75	-	≥ 13	≤ 1	-	-

**Guidelines developed by Dr. Norm Hummel

Lab ID#	Sample Name	% Passing mm (US sieve)							
		Gravel 6.3 (1/4")	Gravel 4.0 (5)	Gravel 2.0 (10)	V. Coarse 1.0 (18)	Coarse 0.5 (35)	Medium 0.25 (60)	Fine 0.15 (100)	V. Fine 0.05 (270)
20110056-2	EQ-Footing 20	100.0	100.0	99.6	90.9	64.2	38.9	29.7	20.4
	ASTM F2107 Standard Guide for Skinned Areas			85 - 100	62 - 90	48 - 84	38 - 71	27 - 60	19 - 40

Lab ID#	Sample Name	% Retained***							
		Gravel 6.3 (1/4")	Gravel 4.0 (5)	Gravel 2.0 (10)	V. Coarse 1.0 (18)	Coarse 0.50 (35)	Medium 0.25 (60)	Fine 0.10 (140)	V. Fine 0.05 (270)
20110056-2	EQ-Footing 20	0.0	0.0	0.4	8.7	26.8	25.4	13.4	5.3
	Ballfield Guidelines**	-	0	≤ 3	-	> 50% of total sand	-	-	-

*ASTM F1632 Method B

***Data reported using USDA definitions of soil classification

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 Sam Ferris